

Copy of Field_MTF_Energy_Survey_HH_07252017

SURVEY IDENTIFICATION INFORMATION QUESTIONNAIRE DESCRIPTION

HOUSEHOLD IDENTIFICATION

No sub-sections, No rosters, Questions: 15.

INTERVIEW DETAILS

Sub-sections: 1, No rosters, Questions: 7, Static texts: 2.

A. HOUSEHOLD ROSTER

No sub-sections, Rosters: 1, Questions: 21.

B. HOUSEHOLD CHARACTERISTICS

No sub-sections, No rosters, Questions: 34.

C. SUPPLY AND DEMAND OF ELECTRICITY

Sub-sections: 15, Rosters: 2, Questions: 244, Static texts: 8.

D. WILLINGNESS TO PAY FOR A GRID CONNECTION

No sub-sections, No rosters, Questions: 15, Static texts: 2, Variables: 3.

E. WILLINGNESS TO PAY FOR IMPROVED ELECTRICITY SUPPLY

No sub-sections, No rosters, Questions: 6.

F. WILLINGNESS TO PAY FOR SOLAR DEVICE

No sub-sections, No rosters, Questions: 8, Static texts: 2, Variables: 3.

G. KEROSENE/FUEL-BASED /CANDLE LIGHTING

Sub-sections: 3, Rosters: 1, Questions: 22.

H. DRY-CELL BATTERIES

No sub-sections, Rosters: 1, Questions: 10, Static texts: 1.

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING

Sub-sections: 13, No rosters, Questions: 78.

J. USE OF COOKING SOLUTIONS

Sub-sections: 1, Rosters: 1, Questions: 56, Static texts: 4.

K. SPACE AND WATER HEATING

No sub-sections, No rosters, Questions: 8.

L. WILLINGNESS TO PAY FOR AN IMPROVED COOKSTOVE

No sub-sections, No rosters, Questions: 13, Static texts: 6.

N. HOUSEHOLD ASSETS: TRANSPORTATION AND AGRICULTURAL EQUIPMENT OWNERSHIP AND TOTAL

No sub-sections, Rosters: 2, Questions: 7, Static texts: 1.

P. HOUSEHOLD ECONOMIC SHOCKS

Sub-sections: 2, No rosters, Questions: 4, Static texts: 1.

Q. STREET LIGHTING

No sub-sections, No rosters, Questions: 7, Static texts: 1.

R. TIME USE

No sub-sections, Rosters: 1, Questions: 26.

S. HEALTH IMPACTS

No sub-sections, Rosters: 1, Questions: 23.

T. ATTITUDES

Sub-sections: 1, No rosters, Questions: 36, Static texts: 2.

U. WOMEN'S EMPOWERMENT

No sub-sections, No rosters, Questions: 13, Static texts: 3.

M. CONSUMPTION / EXPENDITURE

Sub-sections: 3, Rosters: 1, Questions: 26, Static texts: 1.

O. HOUSEHOLD LAND OWNERSHIP AND OTHER ASSETS

Sub-sections: 1, No rosters, Questions: 5, Static texts: 1.

CONTROL SHEET - INTERVIEW STATUS

Sub-sections: 3, No rosters, Questions: 17, Static texts: 1.

APPENDIX A — VALIDATION CONDITIONS AND MESSAGES

APPENDIX B — OPTIONS

LEGEND

*SURVEY IDENTIFICATION INFORMATION
QUESTIONNAIRE DESCRIPTION*

Basic information

Title Copy of Field_MTF_Energy_Survey_HH_07252017

HOUSEHOLD IDENTIFICATION

Questionnaire Number	NUMERIC: INTEGER SCOPE: IDENTIFYING Q_N -----
Quality Control (For Supervisors)	MULTI-SELECT SCOPE: SUPERVISOR QC 01 <input type="checkbox"/> Offsite check completed 02 <input type="checkbox"/> Observational visit completed 03 <input type="checkbox"/> Back check completed
Location Name	TEXT SCOPE: IDENTIFYING Location_Name
GPS Tracking	GPS SCOPE: IDENTIFYING GPS ----- N ----- W ----- A
Date of Household Visit	DATE Date_HH_Visit
Ecological Region	SINGLE-SELECT Eco_Reg 01 <input type="radio"/> Mountain/High Hills 02 <input type="radio"/> Hills 03 <input type="radio"/> Terai
Province	SINGLE-SELECT Province 01 <input type="radio"/> Province 1 02 <input type="radio"/> Province 2 03 <input type="radio"/> Province 3 04 <input type="radio"/> Province 4 05 <input type="radio"/> Province 5 06 <input type="radio"/> Province 6 07 <input type="radio"/> Province 7
Development Region	SINGLE-SELECT Dev_Region 01 <input type="radio"/> Eastern 02 <input type="radio"/> Central 03 <input type="radio"/> Western 04 <input type="radio"/> Mid-western 05 <input type="radio"/> Far-western
Zone	SINGLE-SELECT: CASCADING Zone 01 <input type="radio"/> Mechi 02 <input type="radio"/> Koshi 03 <input type="radio"/> Sagarmatha 04 <input type="radio"/> Janakpur 05 <input type="radio"/> Bagmati

	06 <input type="radio"/> Narayani 07 <input type="radio"/> Gandaki 08 <input type="radio"/> Dhaulagiri 09 <input type="radio"/> Lumbini 10 <input type="radio"/> Rapti 11 <input type="radio"/> Bheri 12 <input type="radio"/> Karnali 13 <input type="radio"/> Seti 14 <input type="radio"/> Mahakali
VDC/Municipality	SINGLE-SELECT VDC_MUN 01 <input type="radio"/> VDC 02 <input type="radio"/> Municipality
VDC/Municipality Name	TEXT VDC_MUN_NAME -----
3.District	SINGLE-SELECT: CASCADING District 01 <input type="radio"/> Taplejung 02 <input type="radio"/> Panchthar 03 <input type="radio"/> Ilam 04 <input type="radio"/> Jhapa 05 <input type="radio"/> Morang 06 <input type="radio"/> Sunsari 07 <input type="radio"/> Dhankuta 08 <input type="radio"/> Tehrathum 09 <input type="radio"/> Sankhuwasabha 10 <input type="radio"/> Bhojpur 11 <input type="radio"/> Solukhumbu 12 <input type="radio"/> Okhaldhunga 13 <input type="radio"/> Khotang 14 <input type="radio"/> Udayapur 15 <input type="radio"/> Saptari 16 <input type="radio"/> Siraha And 59 other symbols [1]
4. EA	NUMERIC: INTEGER EA -----
5. LOCALITY	SINGLE-SELECT LOCALITY 01 <input type="radio"/> Urban 02 <input type="radio"/> Rural
6. Household ID	NUMERIC: INTEGER HH_ID -----

INTERVIEW DETAILS

INTERVIEW DETAILS
INITIAL MEET AND GREET / HOUSEHOLD CONSENT

STATIC TEXT

Namaste My name is and I am from Solutions Consultant- a market research consulting firm based at Kathmandu (Uttardhoka, Lazimpat). Currently, we are conducting a national survey all over Nepal in collaboration with World Bank in which we are gathering information regarding your electricity consumption and coping activities when power is not available in your community. Your response is very important to give the policy makers the information to make informed decisions in order to improve electricity services that can help people like you. We would like to assure you that all the responses will be analyzed in an aggregate form; used only for this survey and kept highly confidential. If you have any queries regarding this survey, please do not hesitate to contact [REDACTED]. So, would you please spare some time to participate in this survey?

Are you willing to Proceed with the survey?	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	CONSENT
7. Name of Household Head	TEXT	HH_HEAD_NAME
E CONSENT == 1	
8. Language of interview	SINGLE-SELECT 01 <input type="radio"/> English 02 <input type="radio"/> Nepali	LANGUAGE
E CONSENT == 1		
11. Enumerator ID	NUMERIC: INTEGER	ENUM_ID
E CONSENT == 1	-----	
Supervisor ID	NUMERIC: INTEGER SCOPE: SUPERVISOR	SUP_ID
E CONSENT == 1	-----	
Date of Interview DD/MM/YY	DATE	DATE_INTERVIEW
E CONSENT == 1	
Start Time	DATE: CURRENT TIME	START_TIME
E CONSENT == 1	

STATIC TEXT

E CONSENT == 1

IN ORDER TO MAKE A COMPREHENSIVE LIST OF INDIVIDUALS CONNECTED TO THE HOUSEHOLD, USE THE FOLLOWING PROBE QUESTIONS: First, give me the names of all the members of your immediate family who normally live and eat their meals together here for the last 6 months. WRITE DOWN NAMES, SEX, AND RELATIONSHIP TO HH HEAD (Q2 - Q4). LIST HOUSEHOLD HEAD ON LINE 1. Then, give me the names of any other persons related to you or other household members who normally live and eat their meals together here. FILL IN Q2 - Q4. Are there any other persons not here now who normally live and eat their meals here? For example, household members studying elsewhere or traveling. FILL IN Q2 - Q4. Then, give me the names of any other persons not related to you or other household members, but who normally live and eat their meals together here, such as servants, lodgers, or other who are not relatives. FILL IN Q2 - Q4. DO NOT LIST HOUSEHELP WHO HAVE A HOUSEHOLD ELSEWHERE, AND GUESTS WHO ARE VISITING TEMPORARILY AND HAVE A HOUSEHOLD ELSEWHERE. IF MORE THAN 20 INDIVIDUALS, USE SECOND QUESTIONNAIRE.

A. HOUSEHOLD ROSTER

Please tell us the number of household member in your family.	NUMERIC: INTEGER	HH_MEMBER_NUMBER
I Make a complete list of all individuals who normally live and eat their meals together in this household, starting with the head of household.	-----	

A. HOUSEHOLD ROSTER

Roster: A. HOUSEHOLD ROSTER PERSON:

generated by numeric question [HH_MEMBER_NUMBER](#)

HH_ROSTER

A1. Individual ID	NUMERIC: INTEGER A1 -----
A2. Name I Enumerator: First then Last Name	TEXT A2 -----
A3. %A2% male or female?	SINGLE-SELECT A3 01 <input type="radio"/> Male 02 <input type="radio"/> Female
A4. What is the relationship of %A2% to household head? V1 (self==1&&HH_ROSTER.Count(x=>x.A4==1)==1) self!=1 M1 There can only be one household head! Please check!	SINGLE-SELECT A4 01 <input type="radio"/> Head 02 <input type="radio"/> Wife/Spouse 03 <input type="radio"/> Child/adopted child 04 <input type="radio"/> Grandchild 05 <input type="radio"/> Niece/Nephew 06 <input type="radio"/> Father/Mother 07 <input type="radio"/> Sister/Brother 08 <input type="radio"/> Son/Daughter-in-law 09 <input type="radio"/> Brother/Sister-in-law 10 <input type="radio"/> Father/Mother-in-law 11 <input type="radio"/> Grandfather/mother 12 <input type="radio"/> Other relative 13 <input type="radio"/> Servant/servant's relative 14 <input type="radio"/> Other non-relative
A5. How old is %A2%? I YEARS, Enumerator: Record "0" if infant below 1 year old. V1 self <= 100 M1 Please enter less than or equal to 100.	NUMERIC: INTEGER A5 -----
A6. ENUMERATOR: Is %A2% 5 years old or older? E A5 >= 5	SINGLE-SELECT A6 01 <input type="radio"/> Yes 02 <input type="radio"/> No
A7. Has %A2% ever attended school? E A6 == 1	SINGLE-SELECT A7 01 <input type="radio"/> Yes 02 <input type="radio"/> No
A8. Is %A2% currently attending school? E A7 == 1	SINGLE-SELECT A8 01 <input type="radio"/> Yes 02 <input type="radio"/> No
A9. What is the highest educational qualification acquired by %A2%? E A7 == 1	SINGLE-SELECT A9 02 <input type="radio"/> Primary 03 <input type="radio"/> Secondary 04 <input type="radio"/> Higher Secondary 05 <input type="radio"/> Vocational/ Technical School 06 <input type="radio"/> Graduate 07 <input type="radio"/> Post-Grad
A9A. How many years of %A9% has %A2% completed? -YEARS I Class E A7 == 1 V1 self < A5	NUMERIC: INTEGER A9A -----

M1 Please enter less than age.	
<p>A10. ENUMERATOR: Is %A2% 12 years or older?</p> <p>E A6 == 1</p>	<p>SINGLE-SELECT A10</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>A11. What is %A2%'s marital status?</p> <p>E A10 == 1</p> <p>V1 A4 ==1 && HH_ROSTER.Any(x=>x.A4==2)? self == 1: true</p> <p>M1 Marital status of head of household with spouse must be married.</p> <p>V2 A4==2 && self == 1 A4!=2</p> <p>M2 Spouse to the head of household must be married</p>	<p>SINGLE-SELECT A11</p> <p>01 <input type="radio"/> Married</p> <p>02 <input type="radio"/> Cohabiting</p> <p>03 <input type="radio"/> Never Married</p> <p>04 <input type="radio"/> Divorced</p> <p>05 <input type="radio"/> Separated</p> <p>06 <input type="radio"/> Widowed</p>
<p>A12. How frequently does %A2% cook food for the household?</p> <p>E A10 == 1</p>	<p>SINGLE-SELECT A12</p> <p>01 <input type="radio"/> Everyday</p> <p>02 <input type="radio"/> A few times in a week</p> <p>03 <input type="radio"/> Once a week</p> <p>04 <input type="radio"/> A few times in a month</p> <p>05 <input type="radio"/> Once a month</p> <p>06 <input type="radio"/> Never</p>
<p>A13. Is %A2% 15 years or older?</p> <p>E A10 == 1</p>	<p>SINGLE-SELECT A13</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>A14. What was %A2%'s main occupation for the last 12 months?</p> <p>E A13 == 1</p>	<p>SINGLE-SELECT A14</p> <p>001 <input type="radio"/> Wage/Salaried Employee, Non-Farm</p> <p>002 <input type="radio"/> Wage/Salaried Employee, Farm</p> <p>003 <input type="radio"/> Self-Employed Non-Farm-Business enterprise</p> <p>004 <input type="radio"/> Self-Employed Non-Farm-Independent contractor, technician, professional, etc</p> <p>005 <input type="radio"/> Self-Employed Agriculture/Livestock</p> <p>006 <input type="radio"/> Assistance in family enterprise</p> <p>007 <input type="radio"/> Casual/Day Laborer</p> <p>008 <input type="radio"/> Intern/free labor/voluntary work</p> <p>009 <input type="radio"/> Student</p> <p>010 <input type="radio"/> Retired/pensioner</p> <p>011 <input type="radio"/> Too old to work</p> <p>012 <input type="radio"/> Disabled</p> <p>013 <input type="radio"/> Job Seeker</p> <p>014 <input type="radio"/> Unemployed</p> <p>015 <input type="radio"/> House wife/husband</p> <p>555 <input type="radio"/> Other</p>
<p>A14. Specify Others</p> <p>E A14 == 555</p>	<p>TEXT A14_SO</p> <p>-----</p>
<p>A16. Out of the last 12 months,how many months were you engaged in this activity?</p> <p>E A14.InList(1,2,3,4,5,6,7,8,555)</p> <p>V1 self < 13</p> <p>M1 Enter less than or equal to 12.</p>	<p>NUMERIC: INTEGER A16</p> <p>-----</p>

<p>A17. How many days per month does %A2% work in this activity?</p> <p>E A14.InList(1,2,3,4,5,6,7,8,555) V1 self < 33 M1 Enter below or equal to 32.</p>	<p>NUMERIC: INTEGER A17</p> <p>-----</p>
<p>A18. Does %A2% operate any non-agricultural/ business/ enterprise within this household or compound?</p> <p>E A14.InList(1,2,3,4,5,6,7,8,555)</p>	<p>SINGLE-SELECT A18</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>A19. How many employees does this business/ enterprise have?</p> <p>I Number of employees including full time and Part time E A18 == 1</p>	<p>NUMERIC: INTEGER A19</p> <p>-----</p>

B.HOUSEHOLD CHARACTERISTICS

<p>B1. Enumerator: Record name of respondent for this section</p> <p>I Individual name from Household Roster</p>	<p>SINGLE-SELECT: LINKED B1</p>
<p>B2. Does your household live in this dwelling for the entire year?</p>	<p>SINGLE-SELECT B2</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>B3. Is this your main dwelling?</p> <p>I The dwelling that you live in for most of the year. E B2 == 2</p>	<p>SINGLE-SELECT B3</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>B4. How many years have you been living in this community?</p> <p>I Record 1 if less than 1. V1 self <= 100 M1 Too Large. Please Check</p>	<p>NUMERIC: INTEGER B4</p> <p>-----</p>
<p>B5. What is the type of dwelling?</p> <p>I (Enumerator, check with observation)</p>	<p>SINGLE-SELECT B5</p> <p>001 <input type="radio"/> A single house occupied by one household dwelling 002 <input type="radio"/> A house occupied by multiple households 003 <input type="radio"/> Multi-storied building with one household 004 <input type="radio"/> Multi-storied building with more households 005 <input type="radio"/> Group of enclosed dwellings: multiple households 006 <input type="radio"/> Group of enclosed dwellings occupied by a single household 555 <input type="radio"/> Other, specify</p>
<p>B5. Others Specify</p> <p>E B5 == 555</p>	<p>TEXT B5_SO</p> <p>-----</p>
<p>B6. How many households share your dwelling?</p>	<p>NUMERIC: INTEGER B6</p> <p>-----</p>

I Number of households E B5.InList (2,4,5,555)	
B7. Do you own this dwelling?	SINGLE-SELECT B7 01 <input type="radio"/> Yes 02 <input type="radio"/> No
B8. Do you use it for free or rent it? E B7 == 2	SINGLE-SELECT B8 01 <input type="radio"/> Free 02 <input type="radio"/> Rented
B9. How many rooms (excluding the kitchen, toilet, and bathroom) does the household occupy? I Record number of rooms E B8 == 2	NUMERIC: INTEGER B9 -----
B10.The walls of the dwelling are mainly made of what material? I Check with observation	SINGLE-SELECT B10 001 <input type="radio"/> Wood and mud 002 <input type="radio"/> Wood and thatch 003 <input type="radio"/> Wood only 004 <input type="radio"/> Stone only 005 <input type="radio"/> Stone and mud 006 <input type="radio"/> Stone and cement 007 <input type="radio"/> Blocks, plastered with cement 008 <input type="radio"/> Blocks, unplastered 009 <input type="radio"/> Bricks and Cement 010 <input type="radio"/> Mud bricks (traditional) 011 <input type="radio"/> Steel 012 <input type="radio"/> Cargo container 013 <input type="radio"/> Parquet or polished wood 014 <input type="radio"/> Chip wood 015 <input type="radio"/> Corrugated iron sheet 016 <input type="radio"/> Asbestos And 2 other symbols [2]
B10. Others Specify E B10 == 555	TEXT B10_SO -----
B11. The roof of the dwelling is mainly made of what material? I Check with observation	SINGLE-SELECT B11 001 <input type="radio"/> Wood and mud 002 <input type="radio"/> Wood and thatch 003 <input type="radio"/> Stone 004 <input type="radio"/> Brick/Roof tiles 005 <input type="radio"/> Corrugated iron sheet 006 <input type="radio"/> Asbestos 007 <input type="radio"/> Reed/bamboo 008 <input type="radio"/> Plastic/ canvas 009 <input type="radio"/> Concrete 555 <input type="radio"/> Other, specify
B11. Others Specify E B11 == 555	TEXT B11_SO -----
B12. The floor of the dwelling is mainly made of what material?	SINGLE-SELECT B12

<p>I Check with observation</p>	<p>001 <input type="radio"/> Mud/Dung 002 <input type="radio"/> Reed/bamboo 003 <input type="radio"/> Wood planks 004 <input type="radio"/> Parquet or polished wood 005 <input type="radio"/> Cement screed 006 <input type="radio"/> Plastic tiles 007 <input type="radio"/> Cement tiles 008 <input type="radio"/> Brick tiles 009 <input type="radio"/> Ceramic/Marble tiles 555 <input type="radio"/> Other, specify</p>
<p>B12. Specify Others</p> <p>E B12 == 555</p>	<p>TEXT B12_SO</p> <p>.....</p>
<p>B13. What type of toilet facility does your household use?</p> <p>I Multiple responses possible.</p>	<p>MULTI-SELECT B13</p> <p>001 <input type="checkbox"/> None (open field) 002 <input type="checkbox"/> Flush to sewage 003 <input type="checkbox"/> Flush to septic tank 004 <input type="checkbox"/> Pail/Bucket 005 <input type="checkbox"/> Covered pit latrine 006 <input type="checkbox"/> Uncovered pit latrine 007 <input type="checkbox"/> Community latrine 555 <input type="checkbox"/> Other, specify</p>
<p>B13. Specify Others</p> <p>E B13.Contains (555)</p>	<p>TEXT B13_SO</p> <p>.....</p>
<p>B14. What is your household's main source of drinking water?</p>	<p>SINGLE-SELECT B14</p> <p>001 <input type="radio"/> Pipe borne water treated 002 <input type="radio"/> Pipe borne water untreated 003 <input type="radio"/> Bore hole/ hand pump 005 <input type="radio"/> Well/spring protected 006 <input type="radio"/> Well/spring unprotected 007 <input type="radio"/> River/spring 008 <input type="radio"/> Lake/reservoir 009 <input type="radio"/> Rain water 010 <input type="radio"/> Tanker/truck/vendor 011 <input type="radio"/> Bottle/Jar water 555 <input type="radio"/> Other, specify</p>
<p>B14. Specify Others</p> <p>E B14 == 555</p>	<p>TEXT B14_SO</p> <p>.....</p>
<p>B15. Do you treat water for drinking purpose (chemical treatment)?</p>	<p>SINGLE-SELECT B15</p> <p>001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't know</p>
<p>B16. Does anyone in the household have an account at a financial institution?</p>	<p>SINGLE-SELECT B16</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>B17. At which institution is this account or savings?</p> <p>E B16 == 1</p>	<p>MULTI-SELECT B17</p> <p>001 <input type="checkbox"/> Commercial bank (including Development Banks and finance companies)</p>

	002 <input type="checkbox"/> Cooperative (saving and credit cooperative) 003 <input type="checkbox"/> Microfinance institution 555 <input type="checkbox"/> Other, specify	
B17. Specify Others	TEXT	B17_SO
E B17.Contains (555)	
B18. Does anyone in the household have an account at an informal institution?	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	B18
B19. At which informal institution is this account?	MULTI-SELECT 001 <input type="checkbox"/> Group savings (rotational) 002 <input type="checkbox"/> Group savings (one-time disbursement) 555 <input type="checkbox"/> Other, specify	B19
I Multiple responses possible E B18 == 1		
Specify Others	TEXT	B19_SO
E B19.Contains (555)	
B20. If you can get a loan/credit, what are the sources of credit/loans?	MULTI-SELECT 001 <input type="checkbox"/> Commercial/government bank 002 <input type="checkbox"/> Saving and Credit Cooperative 003 <input type="checkbox"/> Microfinance institution 004 <input type="checkbox"/> Rural bank 006 <input type="checkbox"/> NGO 007 <input type="checkbox"/> Business firm 008 <input type="checkbox"/> Employer 009 <input type="checkbox"/> Moneylender 010 <input type="checkbox"/> Shop 011 <input type="checkbox"/> Relative/friend/neighbor 012 <input type="checkbox"/> Mobile money services 013 <input type="checkbox"/> Cannot get a loan/credit 555 <input type="checkbox"/> Other, specify	B20
I Multiple responses possible		
B20. Specify Others	TEXT	B20_SO
E B20.Contains (555)	
B21. Do you have a mobile money account?	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	B21
B22. Do you use mobile money to make payments over the mobile phone?	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	B22
E B21 == 1		
B23. Have you used the account in the past 90 days?	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	B23
E B21 == 1		
B24.How do you use the mobile money services?	MULTI-SELECT 001 <input type="checkbox"/> Receive money from family/friends/other 002 <input type="checkbox"/> Transfer credit to family/relatives 003 <input type="checkbox"/> Top up credit	B24
I Multiple responses possible E B21 == 1		

- 004 Receive NGO/State support
- 005 Pay for Electricity
- 006 Pay for Water
- 007 Internet top-up/credit
- 008 Commercial purchases
- 009 Insurance
- 010 Loan payments
- 011 Savings
- 012 Get small loans from mobile provider
- 555 Other, specify

B24. Specify Others

TEXT

B24_SO

E B24.Contains(555)

C. SUPPLY AND DEMAND OF ELECTRICITY

STATIC TEXT

Instructions: This module should be completed by the most knowledgeable member on household electricity. Concerted answers should be allowed.

Enumerator: Now, we would need to talk to the most knowledgeable member on household electricity. Who would that person be?

SINGLE-SELECT: LINKED

C_WHO

F HH_ROSTER.Any(x=>x.A5>=2)

Is %C_WHO% available now?

SINGLE-SELECT

C_AVAILABLE

- 01 Yes
- 02 No

Enumerator: Record Date and Time for next meeting if the respondent is not currently available.

TEXT

C_DATE_TIME

E C_AVAILABLE == 2

C. SUPPLY AND DEMAND OF ELECTRICITY ELECTRICITY FROM NATIONAL GRID

E C_AVAILABLE == 1

C2. Is the household connected to the national grid?

SINGLE-SELECT

C2

- 01 Yes
- 02 No

C3.How far is your house from the nearest national grid line?

NUMERIC: INTEGER

C3

I Meters,Do not know... 888

E C2 == 2

V1 self <= 150000 || self == 888

M1 Entered number is too far. Check again.

C4. What is the MAIN reason why your household is not connected to the grid?

SINGLE-SELECT

C4

- 001 Grid is too far from household/not available
- 002 Cost of initial connection is too expensive

I Record the MAIN reason.

E C2 == 2

	003 <input type="radio"/> Monthly fee is too expensive 004 <input type="radio"/> Satisfied with current energy solution 005 <input type="radio"/> Renting, Landlord decision 006 <input type="radio"/> Service Unreliable 007 <input type="radio"/> Administrative procedure is too complicated 008 <input type="radio"/> Submitted application and waiting for connection 009 <input type="radio"/> Company refused to connect the household 555 <input type="radio"/> Other, specify
C4. Specify Others E C4 == 555	TEXT C4_SO
C5. Do you expect to get grid connection? E C2 == 2	SINGLE-SELECT C5 001 <input type="radio"/> Yes 999 <input type="radio"/> Don't expect to get grid connection 888 <input type="radio"/> Don't know
C6. When do you expect to get grid connection? E C5 == 1	SINGLE-SELECT C6 001 <input type="radio"/> Upto 6 months 002 <input type="radio"/> 6 months to 1 year 003 <input type="radio"/> 1 year to 2 years 004 <input type="radio"/> More than 2 years 888 <input type="radio"/> Don't know
C7. Who is the service provider of the grid connection? E C2 == 1	SINGLE-SELECT C7 01 <input type="radio"/> Nepal Electricity Authority (NEA) 02 <input type="radio"/> Other Private Electricity Providers
C8. How many years have you had this grid connection? I Record in years, if less than 1 year record 1 . . Dont know=888 E C2 == 1 V1 C8 < 101 self == 888 M1 Too much. Please check.	NUMERIC: DECIMAL C8
C9. How much did your household pay for the grid connection fee? I Don't know.....888 Household was already connected.....111 , Refer to connection fee ONLY. E C2 == 1 V1 self < 10000000 self == 888 M1 Too much. Please check or if don't know enter 888.	NUMERIC: INTEGER C9
C9.A. How much did your household pay for any additional connection costs (external wiring, poles etc.)? I Do not include the connection fee from C.9 here, NPR Don't know.....888 E C9 != 111 && C2 == 1	NUMERIC: INTEGER C9_A
C10. How much did your household pay for the internal wiring fee? - Local currency I Don't know.....888, Do not include the connection fee from % C9% here	NUMERIC: INTEGER C10

<p>E C9 != 111 && C2 == 1</p> <p>C11. How many weeks after you applied for the grid connection did your household get connected? (Insert 0 if immediate) -Number of weeks</p> <p>I Don't know.....888</p> <p>E C9 != 111 && C2 == 1</p> <p>V1 self < 53 self == 888</p> <p>M1 Too many weeks. if don't know please enter 888.</p>	<p>NUMERIC: INTEGER C11</p> <p>-----</p>
<p>C12. How many days after you were connected were you able to use electricity in your home?</p> <p>I Number of days,(Insert 0 if immediate), Don't know.....888</p> <p>E C9 != 111 && C2 == 1</p> <p>V1 self < 101 self == 888</p> <p>M1 Too long . Please check.</p>	<p>NUMERIC: INTEGER C12</p> <p>-----</p>
<p>C13. Who receives the payment for your electricity service?</p> <p>E C2 == 1</p>	<p>SINGLE-SELECT C13</p> <p>001 <input type="radio"/> Energy company for eg.: NEA, BPC</p> <p>003 <input type="radio"/> Community/village/municipality</p> <p>004 <input type="radio"/> Relative</p> <p>005 <input type="radio"/> Neighbor</p> <p>006 <input type="radio"/> Landlord</p> <p>007 <input type="radio"/> No one</p> <p>555 <input type="radio"/> Other, specify</p>
<p>C13. Specify Others</p> <p>E C13 == 555</p>	<p>TEXT C13_SO</p> <p>-----</p>
<p>C14. Does your household have an electric meter/sub-meter?</p> <p>E C13.InList(1,3,4,5,6,555) && C2 == 1</p>	<p>SINGLE-SELECT C14</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C15. What is the capacity of the meter/sub-meter?</p> <p>I Ampere, Please take reference from electricity bill or from meter-box.</p> <p>E C14 == 1 && C2 == 1</p>	<p>NUMERIC: INTEGER C15</p> <p>-----</p>
<p>C17. Does your household share the electric meter/sub-meter?</p> <p>E C14 == 1 && C2 == 1</p>	<p>SINGLE-SELECT C17</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C18. How many households are sharing the meter/sub meter?</p> <p>I Number of Households</p> <p>E C17 == 1 && C2 == 1</p> <p>V1 self < 31</p> <p>M1 Too many household. Please check.</p>	<p>NUMERIC: INTEGER C18</p> <p>-----</p>
<p>C19. How are you billed for electricity?</p> <p>I Read options aloud</p> <p>E C13.InList(1,2,3,4,5,6,555) && C2 == 1</p>	<p>SINGLE-SELECT C19</p> <p>001 <input type="radio"/> Fixed monthly fee</p> <p>002 <input type="radio"/> Pay based on lights and appliances used</p> <p>003 <input type="radio"/> Utility estimates consumption</p> <p>555 <input type="radio"/> Other, specify</p> <p>111 <input type="radio"/> No bill for electricity</p>

<p>C19. Specify Others</p> <p>E C19 == 555</p>	<p>TEXT</p> <p style="text-align: right;">C19_SO</p> <p>.....</p>
<p>C20. How do you make your electricity bill payment?</p> <p>E C13.InList(1,2,3,4,5,6,555) && C2 == 1</p>	<p>SINGLE-SELECT</p> <p style="text-align: right;">C20</p> <p>001 <input type="radio"/> Cash</p> <p>002 <input type="radio"/> Credits using mobile money</p> <p>003 <input type="radio"/> Credit, using other ways</p> <p>555 <input type="radio"/> Other, specify</p>
<p>C20. Specify Others</p> <p>E C20 == 555</p>	<p>TEXT</p> <p style="text-align: right;">C20_SO</p> <p>.....</p>
<p>C21.Where do you make payments?</p> <p>E C13.InList(1,2,3,4,5,6,555) && C2 == 1</p>	<p>SINGLE-SELECT</p> <p style="text-align: right;">C21</p> <p>001 <input type="radio"/> Local store</p> <p>002 <input type="radio"/> Utility office</p> <p>003 <input type="radio"/> Bank</p> <p>004 <input type="radio"/> Post office</p> <p>555 <input type="radio"/> Other, specify</p>
<p>C21. Specify Other</p> <p>E C21 == 555</p>	<p>TEXT</p> <p style="text-align: right;">C21_SO</p> <p>.....</p>
<p>C22.Enumerator: If the respondent pays the energy company or has a record of the electricity payment, ask to see the electricity bill/invoice and use it for C.23 and C.24 .</p> <p>E C13.InList(1,2,3,4,5,6,555) && C2 == 1</p>	<p>SINGLE-SELECT</p> <p style="text-align: right;">C22</p> <p>01 <input type="radio"/> Respondent has energy bill and shows it</p> <p>02 <input type="radio"/> Respondent has energy bill but refuses to show it or could not locate it</p> <p>03 <input type="radio"/> Respondent does not have an energy bill</p>
<p>C23.In the last month, how much did you spend on the electric bill?</p> <p>I Don't Know.....888</p> <p>E C22 == 1</p> <p>V1 self < 100000 self == 888</p> <p>M1 Too much. Please check or if don't know enter 888.</p>	<p>NUMERIC: INTEGER</p> <p style="text-align: right;">C23</p> <p>-----</p>
<p>C24. In the last month how much electricity did your household consume?</p> <p>I Quantity in Kilowatt Hour (kWh),Don't Know.....888</p> <p>E C22 == 1</p> <p>V1 self < 100000 self == 888</p> <p>M1 Too much. Please check. or if don't know enter 888.</p>	<p>NUMERIC: INTEGER</p> <p style="text-align: right;">C24</p> <p>-----</p>
<p>C25. In a typical month, how much did you spend on electricity?</p> <p>I Don't know.....888,</p> <p>E C24 < 0 C22 == 3 C22 == 2 C13 == 7</p> <p>V1 self >= 30 self < 100000 self == 888</p> <p>M1 Amount is either too small or too high. Please check again. or if don't know enter 888.</p>	<p>NUMERIC: INTEGER</p> <p style="text-align: right;">C25</p> <p>-----</p>
<p>C26. Are there certain months/seasons every year when the household experiences bad electricity service from the national grid?</p> <p>E C2 == 1</p>	<p>SINGLE-SELECT</p> <p style="text-align: right;">C26</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C27. What are the worst months for service</p>	<p>MULTI-SELECT: YES/NO</p> <p style="text-align: right;">C27</p>

V1 self <= 168 self == 888 M1 Please enter less than or equal to 24 or 888.	
C33. What is the total duration of all the outages/blackouts in a week?:Minutes	NUMERIC: INTEGER C33_A_MINUTES
I Minute, Don't know.....888 E C32_A != 111 V1 self < 60 self == 888 M1 Please enter less than 59 or 888.	-----

C. SUPPLY AND DEMAND OF ELECTRICITY / ELECTRICITY FROM NATIONAL GRID
B. TYPICAL MONTH

E C2 == 1

C29. How many hours of electricity are available each day and night from the grid? (max 24 hours)	NUMERIC: INTEGER C29_B
I Don't know.....888 V1 self < 25 self == 888 M1 Please enter less than or equal to 24 or 888.	-----

C30. How many hours of electricity are available each evening, from 6:00 pm to 10:00 pm from the grid? (max 4 hours)	NUMERIC: INTEGER C30_B
I Don't know.....888 V1 self < 5 self == 888 M1 Please enter less than or equal to 4 or if don't know enter 888.	-----

C31. How many hours of electricity do you use each day and night from the grid? Cannot exceed number of available hours in C.29	NUMERIC: INTEGER C31_B
I Don't know.....888 V1 self <= C29_B self == 888 M1 Please enter less than or equal to %C29_B%. or 888 for don't know	-----

C32. How many outages/blackouts occur in a week?	NUMERIC: INTEGER C32_B
I No outages/blackouts.....111 Don't know.....888	-----

C33.What is the total duration of all the outages/blackouts in a week?:Hour	NUMERIC: INTEGER C33_B_HOUR
I Hour, Don't know.....888 E C32_B != 111 V1 self <= 168 self == 888 M1 Please enter less than or equal to 24 or 888.	-----

C33.What is the total duration of all the outages/blackouts in a week?:Minutes	NUMERIC: INTEGER C33_B_MINUTES
I Minute, Don't know.....888 E C32_B != 111 V1 self < 60 self == 888 M1 Please enter less than 59 or 888.	-----

C34.What is your main back-up source of lighting during outages/blackouts of the grid?	SINGLE-SELECT C34
E C2 == 1	001 <input type="radio"/> Electric generator 002 <input type="radio"/> Rechargeable battery and storage devices (e.g.: car battery) 003 <input type="radio"/> Solar Lantern (single light)

	<ul style="list-style-type: none"> 004 <input type="radio"/> Solar -Lighting System (2+ lights with cell phone charging and/or radio) 005 <input type="radio"/> Solar Home System (2+ lights with cell phone charging, and TV/fan/fridge) 006 <input type="radio"/> Pico-hydro 007 <input type="radio"/> Kerosene lamp 008 <input type="radio"/> Fuel-based lighting 009 <input type="radio"/> Dry-cell (non-rechargeable) battery/ Torch/ Flashlight 010 <input type="radio"/> Candle 555 <input type="radio"/> Other, specify 111 <input type="radio"/> No back-up source
<p>C34. Specify Others</p> <p>E C34 == 555</p>	<p>TEXT C34_SO</p> <p>.....</p>
<p>C35. What is your main back-up source of electricity for appliances (including mobile phone charging) during outages/blackouts of the grid?</p> <p>E C2 == 1</p>	<p>SINGLE-SELECT C35</p> <ul style="list-style-type: none"> 002 <input type="radio"/> Electric Generator 003 <input type="radio"/> Rechargeable battery and storage devices (e.g.: car battery) 004 <input type="radio"/> Solar Lantern (single light) 005 <input type="radio"/> Solar -Lighting System (2+ lights with cell phone charging and/or radio) 006 <input type="radio"/> Solar Home System (2+ lights with cell phone charging, and TV/fan/fridge) 007 <input type="radio"/> Pico-hydro 555 <input type="radio"/> Other, specify 111 <input type="radio"/> No back-up source
<p>C35. Specify Others</p> <p>E C35 == 555</p>	<p>TEXT C35_SO</p> <p>.....</p>
<p>C36. How do you request for repairs in electricity service or file a complaint?</p> <p>E C2 == 1</p>	<p>SINGLE-SELECT C36</p> <ul style="list-style-type: none"> 001 <input type="radio"/> Call utility company 002 <input type="radio"/> Call a local technician 003 <input type="radio"/> Send a letter/email 004 <input type="radio"/> Social media 005 <input type="radio"/> Talk to community representative 006 <input type="radio"/> No system to request repairs/file complaint 555 <input type="radio"/> Other, specify
<p>C36. Specify Others</p> <p>E C36 == 555</p>	<p>TEXT C36_SO</p> <p>.....</p>
<p>C37. When there is a blackout in your community, who do you usually approach for assistance?</p> <p>E C2 == 1</p>	<p>SINGLE-SELECT C37</p> <ul style="list-style-type: none"> 01 <input type="radio"/> The power company 02 <input type="radio"/> Someone not from power company 03 <input type="radio"/> No-one: we wait until power returns
<p>C38. The last time you asked for assistance, how many days after you contacted %C37% did they come to fix the problem?</p>	<p>NUMERIC: DECIMAL C38</p> <p>-----</p>

<p>INumber of Days Enumerator: If under 24 hours record 0. if "Have not encountered any problem yet enter 111"</p> <p>E (C37 == 2 C37 == 1) && C2 == 1</p> <p>V1 self < 100 self==111</p> <p>M1 Too many. Please check.</p>	
<p>C39.Do you experience voltage fluctuations from the grid?</p> <p>E (C37 == 2 C37 == 1) && C2 == 1</p>	<p>SINGLE-SELECT C39</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C40. Have you installed an instrument to prevent damage caused by the voltage fluctuations (eg: stabilizer)?</p> <p>E C39 == 1 && C2 == 1</p>	<p>SINGLE-SELECT C40</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C41. In the last 12 months, did any of your appliances get damaged because the voltage was going up and down from the grid?</p> <p>E (C39 == 1 && C2 == 1) C37 == 3</p>	<p>SINGLE-SELECT C41</p> <p>001 <input type="radio"/> Yes</p> <p>002 <input type="radio"/> No</p> <p>888 <input type="radio"/> Don't know</p>
<p>C42. What are the most serious problems you experience with your grid electricity?</p> <p>I 2 options only, Order matters.</p> <p>E C2 == 1</p>	<p>MULTI-SELECT: ORDERED C42</p> <p>001 <input type="checkbox"/> Supply shortage/not enough hours of electricity</p> <p>002 <input type="checkbox"/> Low/high voltage problems or voltage fluctuations</p> <p>003 <input type="checkbox"/> Unpredictable interruptions</p> <p>004 <input type="checkbox"/> Unexpectedly high bills</p> <p>005 <input type="checkbox"/> High cost of electricity</p> <p>006 <input type="checkbox"/> Do not trust the supplier</p> <p>007 <input type="checkbox"/> Cannot power large appliances</p> <p>008 <input type="checkbox"/> Maintenance/service problems</p> <p>009 <input type="checkbox"/> Unpredictable bills</p> <p>555 <input type="checkbox"/> Other, specify</p> <p>111 <input type="checkbox"/> No problems</p>
<p>C42. Specify Others</p> <p>E C42.Contains(555)</p>	<p>TEXT C42_SO</p> <p>.....</p>
<p>C43.In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the grid electricity (for example, serious bodily injury because of electric shocks, fire/sparks due to short circuit/voltage surge)?</p> <p>E C2 == 1</p>	<p>SINGLE-SELECT C43</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C43.A. What was the reasons for this injury?</p> <p>E C43 == 1</p>	<p>SINGLE-SELECT C43_A</p> <p>001 <input type="radio"/> Carelessness or error</p> <p>002 <input type="radio"/> Lack of knowledge about the use of the appliance</p> <p>003 <input type="radio"/> Faulty wiring or wiring with exposed wires</p> <p>555 <input type="radio"/> Other, specify</p>
<p>C43.A. Specify Others</p> <p>E C43_A == 555</p>	<p>TEXT C43_A_SO</p> <p>.....</p>
<p>C44. Is this household connected to a?</p> <p>E C_AVAILABLE == 1 && C2 == 2</p>	<p>SINGLE-SELECT C44</p> <p>01 <input type="radio"/> Pico hydro</p>

- 02 Micro/Mini-hydro grid
- 03 Neither pico-hydro nor mini/micro-hydro grid
- 04 Both pico-hydro and mini/micro-hydro grid

C. SUPPLY AND DEMAND OF ELECTRICITY
%C44%

E C44.InList (1,2,4)

<p>C45. What is the name of the pico hydro/mini/micro company?</p> <p>I If both please ask about mini/micro hydro grid.</p>	<p>TEXT C45</p> <p>.....</p>
<p>C46. Is there a limit for the load and/or appliances you are allowed to power from this %C45%?</p>	<p>SINGLE-SELECT C46</p> <p>001 <input type="radio"/> Yes</p> <p>002 <input type="radio"/> No</p> <p>888 <input type="radio"/> Don't Know</p>
<p>C47. How many years have you had this %C45%?</p> <p>I Record in years, if less than 1 year record 1</p> <p>V1 self < 101</p> <p>M1 Too many. Please check.</p>	<p>NUMERIC: INTEGER C47</p> <p>-----</p>
<p>C48. How much did your household pay for the %C45% fee?</p> <p>I Refer to connection cost ONLY, Don't know.....888 Household was already connected.....111</p>	<p>NUMERIC: INTEGER C48</p> <p>-----</p>
<p>C48.A. How much did your household pay for any additional connection costs (external wiring, poles etc.)?</p> <p>I Do not include the connection fee from C.48 here Local currency Don't know.....888</p> <p>E C48 != 111</p>	<p>TEXT C48_A</p> <p>.....</p>
<p>C49. How much did your household pay for the internal wiring?</p> <p>I Don't know.....888 Do not include the connection fee from C.48 here</p> <p>E C48 != 111</p>	<p>NUMERIC: INTEGER C49</p> <p>-----</p>
<p>C50. How many weeks after you applied for the %C45% did your household get connected?</p> <p>I (Insert 0 if immediate)</p> <p>E C48 != 111</p> <p>V1 self < 21</p> <p>M1 Too many. Please check.</p>	<p>NUMERIC: INTEGER C50</p> <p>-----</p>
<p>C51. How many days after you were connected were you able to use electricity in your home? (Insert 0 if immediate)</p> <p>E C48 != 111</p>	<p>NUMERIC: INTEGER C51</p> <p>-----</p>
<p>C52. Have you applied for an upgrade of service since you connected to the %C45%?</p>	<p>SINGLE-SELECT C52</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>

<p>C53. Who receives the payment for your electricity service?</p>	<p>SINGLE-SELECT C53</p> <p>001 <input type="radio"/> Energy company</p> <p>002 <input type="radio"/> Private entity</p> <p>003 <input type="radio"/> Community/village/municipality</p> <p>004 <input type="radio"/> Relative</p> <p>005 <input type="radio"/> Neighbor</p> <p>006 <input type="radio"/> Landlord</p> <p>007 <input type="radio"/> No one</p> <p>008 <input type="radio"/> Cooperative</p> <p>009 <input type="radio"/> Respondent is the owner (No one)</p> <p>555 <input type="radio"/> Other, specify</p>
<p>C53. Specify Others</p> <p>E C53 == 555</p>	<p>TEXT C53_SO</p> <p>.....</p>
<p>C54. Does your household have an electric meter?</p> <p>E C53 != 7 && C53 != 9</p>	<p>SINGLE-SELECT C54</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C56. Does your household share the electric meter?</p> <p>E C54 == 1</p>	<p>SINGLE-SELECT C56</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C57. How many households are sharing the meter?</p> <p>E C56 == 1</p> <p>V1 self < 31</p> <p>M1 Too many household.</p>	<p>NUMERIC: INTEGER C57</p> <p>-----</p>
<p>C58. How are you billed for electricity?</p> <p>I Read options aloud</p> <p>E C54 == 2</p>	<p>SINGLE-SELECT C58</p> <p>001 <input type="radio"/> Fixed monthly fee</p> <p>002 <input type="radio"/> Pay based on lights and appliances used</p> <p>003 <input type="radio"/> Utility estimates consumption</p> <p>555 <input type="radio"/> Other, specify</p> <p>111 <input type="radio"/> No bill for electricity</p>
<p>C58. Specify Others</p> <p>E C58 == 555</p>	<p>TEXT C58_SO</p> <p>.....</p>
<p>C59. How do you make your electricity bill payment?</p> <p>E C53 != 7 && C53 != 9</p>	<p>SINGLE-SELECT C59</p> <p>001 <input type="radio"/> Cash</p> <p>002 <input type="radio"/> Credits using mobile money</p> <p>003 <input type="radio"/> Credit, using other ways</p> <p>555 <input type="radio"/> Other, specify</p>
<p>C59. Specify Others</p> <p>E C59 == 555</p>	<p>TEXT C59_SO</p> <p>.....</p>
<p>C60. Were you involved in setting the tariff for the %C45%?</p> <p>E C53 != 7 && C53 != 9</p>	<p>SINGLE-SELECT C60</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C61. How were you involved in the tariff setting?</p>	<p>SINGLE-SELECT C61</p> <p>001 <input type="radio"/> Community meeting</p>

<p>E C60 == 1</p>	<p>002 <input type="radio"/> Contacted by mini-grid/pico hydro company 003 <input type="radio"/> Member of electricity committee 004 <input type="radio"/> Member of cooperative 555 <input type="radio"/> Other, specify</p>
<p>C61. Specify Others</p> <p>E C61 == 555</p>	<p>TEXT C61_S0</p> <p>.....</p>
<p>C62. Enumerator: If the respondent pays the energy company or has a record of the electricity payment, ask to see the electricity bill/invoice and use it for C63 and C64.</p> <p>E C53 != 7 && C53 != 9</p>	<p>SINGLE-SELECT C62</p> <p>01 <input type="radio"/> Respondent has energy bill and shows it 02 <input type="radio"/> Respondent has energy bill but refuses to show it or could not locate it 03 <input type="radio"/> Respondent does not have an energy bill</p>
<p>C63. In the last month, how much did you spend on the electric bill?</p> <p>I Calculate amount paid from the last bill. Don't Know...888, Local Currency</p> <p>E C62 == 1</p> <p>V1 self < 100000 self == 888</p> <p>M1 Too large. Please check. or if don't know enter 888.</p>	<p>NUMERIC: INTEGER C63</p> <p>-----</p>
<p>C64. In the last month how much electricity did your household use?</p> <p>I Don't Know.....888, KWH</p> <p>E C62 == 1 C53 == 7</p>	<p>NUMERIC: INTEGER C64</p> <p>-----</p>
<p>C65. In a typical month, how much did you spend on electricity?</p> <p>I Don't Know.....888</p> <p>E (C64 < 1 && C62 == 1) (C62 == 2 C62 == 3)</p> <p>V1 self < 100000 self == 888</p> <p>M1 Too Large, Please check or if don't know enter 888</p>	<p>NUMERIC: INTEGER C65</p> <p>-----</p>
<p>C66. Are there certain months/seasons every year when the household experiences bad electricity service from this mini-grid/pico-grid?</p>	<p>SINGLE-SELECT C66</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>C67.What are the worst months for service from the mini-grid?</p> <p>I Multiple responses are possible. Record all months when household h as the lowest number of hours of electricity supply.</p> <p>E C66 == 1</p>	<p>MULTI-SELECT: YES/NO C67</p> <p>001 <input type="checkbox"/> / <input type="checkbox"/> 13th April-13th May 002 <input type="checkbox"/> / <input type="checkbox"/> 14th May-14th June 003 <input type="checkbox"/> / <input type="checkbox"/> 15th June-15th July 004 <input type="checkbox"/> / <input type="checkbox"/> 16th July-16th August 005 <input type="checkbox"/> / <input type="checkbox"/> 17th August-16th September 006 <input type="checkbox"/> / <input type="checkbox"/> 17th September-16th October 007 <input type="checkbox"/> / <input type="checkbox"/> 17th October-15th November 008 <input type="checkbox"/> / <input type="checkbox"/> 16th November-15th December 009 <input type="checkbox"/> / <input type="checkbox"/> 16th December-13th January 010 <input type="checkbox"/> / <input type="checkbox"/> 14th January-11th February 011 <input type="checkbox"/> / <input type="checkbox"/> 12th February-13th March 012 <input type="checkbox"/> / <input type="checkbox"/> 14th March-13th April 888 <input type="checkbox"/> / <input type="checkbox"/> Don't Know</p>
<p>C68.Do you receive information about a "load-shedding" schedule (load shedding is the set</p>	<p>SINGLE-SELECT C68</p>

hours of electricity available from the mini grid)?

- 01 Yes
- 02 No

E C44.InList(1,4)

STATIC TEXT

Ask respondent first about the worst months and then about a typical month for C.69- C.73 If no seasonal changes, ask only about a typical month. Ask questions by ROW.

C. SUPPLY AND DEMAND OF ELECTRICITY / %C44%

A. WORST MONTHS

E C66 == 1

<p>C69. How many hours of electricity are available each day and night from the mini-grid? (max 24 hours)</p> <p>I Don't know.....888</p> <p>V1 self <= 24 self == 888</p> <p>M1 Please enter less than or equal to 24 or 888.</p>	<p>NUMERIC: INTEGER C69_A</p> <p>-----</p>
<p>C70. How many hours of electricity are available each evening, from 6:00 pm to 10:00 pm from the mini-grid? (max 4 hours)</p> <p>I Don't know.....888</p> <p>V1 self <= 4 self == 888</p> <p>M1 Please enter less than or equal to 4 or 888.</p>	<p>NUMERIC: INTEGER C70_A</p> <p>-----</p>
<p>C71. How many hours of electricity do you use each day from the mini-grid?</p> <p>I Don't know.....888</p> <p>V1 self <= C69_A self == 888</p> <p>M1 Please enter less than %C69_A% or if don't konw enter 888.</p>	<p>NUMERIC: INTEGER C71_A</p> <p>-----</p>
<p>C72. How many outages/blackouts occur in a week?</p> <p>I No outages/blackouts.....111,Dont know ...888</p>	<p>NUMERIC: INTEGER C72_A</p> <p>-----</p>
<p>C73A.1.What is the total duration of all the outages/blackouts in a week?:Hours</p> <p>I Don't know.....888, Hours</p> <p>E C72_A != 111</p> <p>V1 self < 169 self == 888</p> <p>M1 Error! Please check. or if don't know enter 888.</p>	<p>NUMERIC: INTEGER C73_A_1</p> <p>-----</p>
<p>C73.A.2.What is the total duration of all the outages/blackouts in a week?</p> <p>I Don't know.....888</p> <p>E C72_A != 111</p> <p>V1 self < 60 self == 888</p> <p>M1 Error! Please check. or if don't know enter 888.</p>	<p>NUMERIC: INTEGER C73_A_2</p> <p>-----</p>

C. SUPPLY AND DEMAND OF ELECTRICITY / %C44%

B.TYPICAL MONTH

<p>C69. How many hours of electricity are available each day and night from the mini-grid? (max 24 hours)</p> <p>I Don't know.....888</p>	<p>NUMERIC: INTEGER C69_B</p> <p>-----</p>
---	---

<p>V1 self <= 24 self == 888 M1 Please enter less than or equal to 24 or 888.</p>	
<p>C70. How many hours of electricity are available each evening, from 6:00 pm to 10:00 pm from the mini-grid? (max 4 hours)</p> <p>I Don't know.....888 V1 self <= 4 self == 888 M1 Please enter less than or equal to 4 or 888</p>	<p>NUMERIC: INTEGER C70_B</p> <p>-----</p>
<p>C71. How many hours of electricity do you use each day from the mini-grid?</p> <p>I Don't know.....888 V1 self <= C69_B self == 888 M1 Please enter less than or equal to %C69_B% or 888</p>	<p>NUMERIC: INTEGER C71_B</p> <p>-----</p>
<p>C72. How many outages/blackouts occur in a week?</p> <p>I No outages/blackouts.....111, Dont know ...888</p>	<p>NUMERIC: INTEGER C72_B</p> <p>-----</p>
<p>C73.B.1.What is the total duration of all the outages/blackouts in a week?: Hours</p> <p>I Don't know.....888 E C72_B != 111 V1 self < 169 self == 888 M1 Error! Please check or enter 888 for don't know.</p>	<p>NUMERIC: INTEGER C73_B_1</p> <p>-----</p>
<p>C73.B.2.What is the total duration of all the outages/blackouts in a week?</p> <p>I Don't know.....888 E C72_B != 111 V1 self < 60 self == 888 M1 Error! Please check. or if don't know enter 888.</p>	<p>NUMERIC: INTEGER C73_B_2</p> <p>-----</p>
<p>C74.What is your main back-up source of lighting during outages/blackouts of the grid?</p>	<p>SINGLE-SELECT C74</p> <p>001 <input type="radio"/> Electric generator 002 <input type="radio"/> Rechargeable battery and storage devices (e.g.: car battery) 003 <input type="radio"/> Solar Lantern 004 <input type="radio"/> Solar -Lighting System (2+ lights with cell phone charging and/or radio) 005 <input type="radio"/> Solar Home System (2+ lights with cell phone charging, and TV/fan/fridge) 006 <input type="radio"/> Pico-hydro 007 <input type="radio"/> Kerosene lamp 008 <input type="radio"/> Fuel-based lighting 009 <input type="radio"/> Dry-cell (non-rechargeable) battery/ Torch/ Flashlight 010 <input type="radio"/> Candle 555 <input type="radio"/> Other, specify 111 <input type="radio"/> No back-up source</p>
<p>C74. Specify Others</p> <p>E C74 == 555</p>	<p>TEXT C74_SO</p> <p>-----</p>
<p>C75.What is your main back-up source of electricity for appliances during</p>	<p>SINGLE-SELECT C75</p> <p>001 <input type="radio"/> Electric generator</p>

outages/blackouts of the mini-grid?

- 002 Rechargeable battery and storage devices (e.g.: car battery)
- 003 Solar Lantern
- 004 Solar -Lighting System (2+ lights with cell phone charging and/or radio)
- 005 Solar Home System (2+ lights with cell phone charging, and TV/fan/fridge)
- 006 Pico-hydro
- 555 Other, specify
- 111 No back-up source

C75. Specify Others

TEXT C75_SO

E C75 == 555

C76.How do you request for repairs in electricity service or file a complaint?

SINGLE-SELECT C76

- 001 Call mini-grid /pico hydro operator
- 002 Call a local technician
- 003 Send a letter/email
- 004 Social media
- 005 Talk to community representative
- 006 No system to request repairs/file complaint
- 555 Other, specify

C76. Specify Others

TEXT C76_SO

E C76 == 555

C77. When there is a blackout in your community, who do you usually approach for assistance?

SINGLE-SELECT C77

- 01 The power company
- 02 Someone not from power company
- 03 No-one: we wait until power returns

C78.The last time you asked for assistance, how many days after you contacted %C77% did they come to fix the problem?

NUMERIC: INTEGER C78

I Number of days Don't know.....888
E C77.InList (1,2)
V1 self < 100 || self == 888
M1 Too large. Please check or enter 888 don't knwo

C79. Do you experience voltage fluctuations from the grid?

SINGLE-SELECT C79

- 01 Yes
- 02 No

C80.Have you installed an instrument to prevent damage caused by the voltage fluctuations (eg: stabilizer)?

SINGLE-SELECT C80

- 01 Yes
- 02 No

E C79 == 1

C81. In the last 12 months, did any of your appliances get damaged because the voltage was going up and down from the mini grid?

SINGLE-SELECT C81

- 001 Yes
- 002 No
- 888 Don't know

E C79 == 1

C82. What are the most serious problems you experience with your mini grid electricity?

I 2 options only, Order matters.

MULTI-SELECT: ORDERED

C82

- 001 Supply shortage/not enough hours of electricity
- 002 Low/high voltage problems or voltage fluctuations
- 003 Unpredictable interruptions
- 004 Unexpectedly high bills
- 005 Too expensive
- 006 Do not trust the supplier
- 007 Cannot power large appliances
- 008 Maintenance/service problems
- 009 Unpredictable bills
- 555 Other, specify
- 111 No problems

C82. Specify Others

TEXT

C82_SO

E C82.Contains(555)

C83. In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the mini grid electricity (for example, bodily injury because of electric shocks, fire/sparks due to short circuit/voltage surge)?

SINGLE-SELECT

C83

- 01 Yes
- 02 No

C83.A. What was the reasons for this injury?

SINGLE-SELECT

C83_A

E C83 == 1

- 001 Carelessness or error
- 002 Lack of knowledge about the use of the appliance
- 003 Faulty wiring or wiring with exposed wires
- 555 Other, specify

C83.A. Specify Others

TEXT

C83_A_SO

E C83_A == 555

C84. In the last 12 months, did the household use a generator to supply electricity?

SINGLE-SELECT

C84

E C_AVAILABLE == 1

- 01 Yes
- 02 No

C. SUPPLY AND DEMAND OF ELECTRICITY
ELECTRIC GENERATOR SET

E C84 == 1

C85. How many generators does your household use to supply electricity?

NUMERIC: INTEGER

C85

I Don't know.....888, If multiple generators, ask following questions about main generator.

V1 self < 6 || self==888

M1 Too many. Please check again.

C86. Do you share this generator with other households?

SINGLE-SELECT

C86

- 01 Yes
- 02 No

C87. How many households are sharing electricity from this generator?

NUMERIC: INTEGER

C87

<p>I Don't know.....888</p> <p>E C86 == 1</p>	
<p>C88.Enumerator Observation: What is the capacity of the generator?</p> <p>I Volt Amps (kVA) Don't know.....888</p>	<p>TEXT C88</p> <p>-----</p>
<p>C89. In the last 12 months, in which months did you use this generator or did you use it all year?</p> <p>V1 (self.Contains(111) && !self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)) (!self.Contains(111) && self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12))</p> <p>M1 Error! . Please used all year or other months only.</p>	<p>MULTI-SELECT C89</p> <p>111 <input type="checkbox"/> Used all year</p> <p>001 <input type="checkbox"/> 13th April-13th May</p> <p>002 <input type="checkbox"/> 14th May-14th June</p> <p>003 <input type="checkbox"/> 15th June-15th July</p> <p>004 <input type="checkbox"/> 16th July-16th August</p> <p>005 <input type="checkbox"/> 17th August-16th September</p> <p>006 <input type="checkbox"/> 17th September-16th October</p> <p>007 <input type="checkbox"/> 17th October-15th November</p> <p>008 <input type="checkbox"/> 16th November-15th December</p> <p>009 <input type="checkbox"/> 16th December-13th January</p> <p>010 <input type="checkbox"/> 14th January-11th February</p> <p>011 <input type="checkbox"/> 12th February-13th March</p> <p>012 <input type="checkbox"/> 14th March-13th April</p> <p>888 <input type="checkbox"/> Don't Know</p>
<p>C90.How many days per month did you typically use this generator?</p> <p>I Number of days Don't know.....888</p> <p>V1 self < 33 self==888</p> <p>M1 Please enter less than or equal to 32.</p>	<p>NUMERIC: INTEGER C90</p> <p>-----</p>
<p>C91.In the last 12 months, what did your household use this generator for?</p>	<p>MULTI-SELECT C91</p> <p>001 <input type="checkbox"/> Lighting</p> <p>002 <input type="checkbox"/> Appliances</p> <p>003 <input type="checkbox"/> Home-based income activity</p> <p>555 <input type="checkbox"/> Other, specify</p> <p>888 <input type="checkbox"/> Don't know</p>
<p>C91. Specify Others</p> <p>E C91.Contains(555)</p>	<p>TEXT C91_SO</p> <p>-----</p>
<p>C92. How many years have you used this generator?</p> <p>I Don't know.....888</p>	<p>NUMERIC: INTEGER C92</p> <p>-----</p>
<p>C93.Does your household own the generator?</p>	<p>SINGLE-SELECT C93</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C94.Who owns the generator?</p> <p>E C93 == 2</p>	<p>SINGLE-SELECT C94</p> <p>001 <input type="radio"/> Other Household</p> <p>002 <input type="radio"/> Community organization</p> <p>003 <input type="radio"/> Private person/entity</p> <p>555 <input type="radio"/> Other, specify</p> <p>888 <input type="radio"/> Don't know</p>
<p>C94. Specify Others</p>	<p>TEXT C94_SO</p>

E C94 == 555	-----
C95.Do you rent the generator or use it for free?	SINGLE-SELECT C95 01 <input type="radio"/> Rent 02 <input type="radio"/> Use for free
E C93 == 2	
C96.How do you pay for electricity services from the generator?	SINGLE-SELECT C96 001 <input type="radio"/> Fixed payment (per month or week) 002 <input type="radio"/> Charge by number of lights/appliances 003 <input type="radio"/> Charge per kWh 004 <input type="radio"/> Pay for fuel only 555 <input type="radio"/> Other, specify
E C95 == 1	
C96. Specify Others	TEXT C96_SO -----
E C96 == 555	
C97.In the months that you use it, how much did you pay to use the generator each month?	NUMERIC: INTEGER C97 -----
I Don't know.....888	
E C96.InList(1,2,3,555)	
C98.How much did you pay to purchase the generator?	NUMERIC: INTEGER C98 -----
I Don't know.....888	
E (C97 < 0 C93 == 1) && (C95 == 2 C93 == 1)	
C99. In the last 12 months, how much did you pay for repairs/parts/maintenance of the generator?	NUMERIC: INTEGER C99 -----
I Don't know.....888	
E (C97 < 0 C93 == 1) && (C95 == 2 C93 == 1)	
C100.What fuel is used to power the generator?	SINGLE-SELECT C100 001 <input type="radio"/> Diesel 002 <input type="radio"/> Petrol 003 <input type="radio"/> Kerosene 555 <input type="radio"/> Other, specify 888 <input type="radio"/> Don't know
C100. Specify Others	TEXT C100_SO -----
E C100 == 555	
C101.In the last 30 days, what was the total quantity of fuel used to power the generator?	NUMERIC: INTEGER C101 -----
I Don't know.....888	
C102.Do you pay for the fuel used to power the generator?	SINGLE-SELECT C102 01 <input type="radio"/> Yes 02 <input type="radio"/> No
C103. In the last 30 days, how much did your household spend on fuel for this generator?	NUMERIC: INTEGER C103 -----
I Don't know....888, NPR	
E C102 == 1	

<p>C104. Is the generator the household's main source of electricity?</p> <p>E C102 == 1</p>	<p>SINGLE-SELECT C104</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C105. Are there certain months/seasons of the year when less fuel is available to power the generator?</p> <p>E C104 == 1 C102 == 2</p>	<p>SINGLE-SELECT C105</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C106. What are the worst months of fuel availability for the generator?</p> <p>E C105 == 1</p>	<p>MULTI-SELECT C106</p> <p>001 <input type="checkbox"/> 13th April-13th May</p> <p>002 <input type="checkbox"/> 14th May-14th June</p> <p>003 <input type="checkbox"/> 15th June-15th July</p> <p>004 <input type="checkbox"/> 16th July-16th August</p> <p>005 <input type="checkbox"/> 17th August-16th September</p> <p>006 <input type="checkbox"/> 17th September-16th October</p> <p>007 <input type="checkbox"/> 17th October-15th November</p> <p>008 <input type="checkbox"/> 16th November-15th December</p> <p>009 <input type="checkbox"/> 16th December-13th January</p> <p>010 <input type="checkbox"/> 14th January-11th February</p> <p>011 <input type="checkbox"/> 12th February-13th March</p> <p>012 <input type="checkbox"/> 14th March-13th April</p> <p>888 <input type="checkbox"/> Don't Know</p>

STATIC TEXT

Ask respondent first about the worst months and then about a typical month for C107-C109 If no seasonal changes C105 or not the main source C104 ask only about a typical month. Ask questions by ROW.

C. SUPPLY AND DEMAND OF ELECTRICITY / ELECTRIC GENERATOR SET
A. WORST MONTHS

E C105 == 1

<p>C107. How many hours could you use this generator each day and night if you wanted to? (max 24 hours)</p> <p>I Don't know.....888</p> <p>V1 self < 25 self == 888</p> <p>M1 Please enter less than or equal to 24 or 888</p>	<p>NUMERIC: INTEGER C107_A</p> <p>-----</p>
<p>C108. How many hours could you use this generator each evening, from 6:00 pm to 10:00 pm if you wanted to? (max 4 hours)</p> <p>I Max 4 hrs., Don't know.....888</p> <p>V1 self < 5 self == 888</p> <p>M1 Please enter less than or equal to 4 or 888.</p>	<p>NUMERIC: INTEGER C108_A</p> <p>-----</p>
<p>C109. How many hours do you actually use this generator each day?</p> <p>I Don't know.....888</p> <p>V1 self < C107_A self == 888</p> <p>M1 Error! Please enter less than %C107_A% or 888</p>	<p>NUMERIC: INTEGER C109_A</p> <p>-----</p>

C. SUPPLY AND DEMAND OF ELECTRICITY / ELECTRIC GENERATOR SET
B. TYPICAL MONTH

<p>C107.How many hours could you use this generator each day and night if you wanted to? (max 24 hours)</p> <p>I Don't know.....888 V1 self < 25 self == 888 M1 Please enter less than or equal to 24 or 888.</p>	<p>NUMERIC: INTEGER C107_B</p> <p>-----</p>
<p>C108.How many hours could you use this generator each evening, from 6:00 pm to 10:00 pm if you wanted to?</p> <p>I Max 4 hrs., Don't know.....888 V1 self < 5 self == 888 M1 Please enter less than or equal to 4 or 888</p>	<p>NUMERIC: INTEGER C108_B</p> <p>-----</p>
<p>C109. How many hours do you actually use this generator each day?</p> <p>I Don't know.....888 V1 self <= C107_B self == 888 M1 Please enter less than or equal to %C107_B% or 888.</p>	<p>NUMERIC: INTEGER C109_B</p> <p>-----</p>
<p>C110. Do you experience voltage fluctuations from the generator?</p> <p>E C84 == 1</p>	<p>SINGLE-SELECT C110</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>C111.Have you installed an instrument to prevent damage caused by the voltage fluctuations (eg: stabilizer)?</p> <p>E C110 == 1</p>	<p>SINGLE-SELECT C111</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>C112. In the last 12 months, did any of your appliances get damaged because the voltage was going up and down from the generator?</p> <p>E C110 == 1</p>	<p>SINGLE-SELECT C112</p> <p>001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't know</p>
<p>C113. What are the most serious problems you experience with the generator?</p> <p>E C84 == 1</p>	<p>MULTI-SELECT: ORDERED C113</p> <p>001 <input type="checkbox"/> Limited power supply 002 <input type="checkbox"/> Cannot power large appliances 003 <input type="checkbox"/> Too expensive to use (including high cost of fuel/rent) 004 <input type="checkbox"/> Availability of the fuel 005 <input type="checkbox"/> Hard to maintain/service 006 <input type="checkbox"/> Loud/Noisy 007 <input type="checkbox"/> Unpredictable interruptions 555 <input type="checkbox"/> Other, specify 111 <input type="checkbox"/> No problems</p>
<p>C113. Specify Others</p> <p>E C113.Contains (555)</p>	<p>TEXT C113_SO</p> <p>-----</p>
<p>C114.In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the generator? (for example, serious bodily injury because of electric shocks, fire/sparks due to short circuit/voltage surge)?</p> <p>E C84 == 1</p>	<p>SINGLE-SELECT C114</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>C114.A. What was the reasons for this injury?</p>	<p>SINGLE-SELECT C114_A</p>

E C114 == 1	001 <input type="radio"/> Carelessness or error 002 <input type="radio"/> Lack of knowledge about the use of the appliance 003 <input type="radio"/> Faulty wiring or wiring with exposed wires 555 <input type="radio"/> Other, specify
C114.A. Specify Others	TEXT C114_A_SO
E C114_A == 555	
C115. In the last 12 months, did the household use any rechargeable batteries, such as car batteries, for electricity AS THE MAIN SOURCE OF ELECTRICITY?	SINGLE-SELECT C115 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E C_AVAILABLE == 1 && (C35 != 3 C75 != 2)	

C. SUPPLY AND DEMAND OF ELECTRICITY
EXTERNALLY RECHARGED BATTERY (CAR BATTERY, ETC) – SKIP IF THIS IS FOR BACKUP SOLUTIONS

E C115 == 1	
C116. In the last 12 months, in which months did you use rechargeable batteries or did you use it all year? Multiple responses possible	MULTI-SELECT: YES/NO C116 111 <input type="checkbox"/> / <input type="checkbox"/> Used all year 001 <input type="checkbox"/> / <input type="checkbox"/> 13th April-13th May 002 <input type="checkbox"/> / <input type="checkbox"/> 14th May-14th June 003 <input type="checkbox"/> / <input type="checkbox"/> 15th June-15th July 004 <input type="checkbox"/> / <input type="checkbox"/> 16th July-16th August 005 <input type="checkbox"/> / <input type="checkbox"/> 17th August-16th September 006 <input type="checkbox"/> / <input type="checkbox"/> 17th September-16th October 007 <input type="checkbox"/> / <input type="checkbox"/> 17th October-15th November 008 <input type="checkbox"/> / <input type="checkbox"/> 16th November-15th December 009 <input type="checkbox"/> / <input type="checkbox"/> 16th December-13th January 010 <input type="checkbox"/> / <input type="checkbox"/> 14th January-11th February 011 <input type="checkbox"/> / <input type="checkbox"/> 12th February-13th March 012 <input type="checkbox"/> / <input type="checkbox"/> 14th March-13th April 888 <input type="checkbox"/> / <input type="checkbox"/> Don't Know
V1 (self.Yes.Contains(111) && !self.Yes.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)) (!self.Yes.Contains(111) && self.Yes.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)) M1 Error! Either select use all or select months only.	
C117. In the last 12 months, what did your household use rechargeable batteries for?	MULTI-SELECT C117 001 <input type="checkbox"/> Lighting 002 <input type="checkbox"/> Appliances 003 <input type="checkbox"/> Home-based income activity 555 <input type="checkbox"/> Other, specify
C117. Specify Others	TEXT C117_SO
E C117.Contains(555)	
C118. Does your household have an inverter that allows you to use AC appliances?	SINGLE-SELECT C118 01 <input type="radio"/> Yes 02 <input type="radio"/> No
C119. What is the capacity of the inverter?	NUMERIC: INTEGER C119
I Watts (W) E C118 == 1	
C120. What is the total number of rechargeable batteries that you use in a typical month?	NUMERIC: INTEGER C120

I Total number of rechargeable batteries. Don't know.....888
888
 E C118.InList(1,2)
 V1 self < 20
 M1 Too many.

C. SUPPLY AND DEMAND OF ELECTRICITY / EXTERNALLY RECHARGED BATTERY (CAR BATTERY, ETC) – SKIP IF THIS IS FOR BACKUP SOLUTIONS

Roster: BATTERY ROSTER

generated by numeric question C120

R_C120

<p>C121.What is the capacity of the rechargeable battery(ies) %rostertitle%?</p> <p>I Don't know.....888 E C118 == 2</p>	<p>NUMERIC: INTEGER C121</p> <p>-----</p>
<p>C122.What is the voltage of the rechargeable battery(ies) %rostertitle%?</p> <p>I Don't know.....888 E C118 == 2</p>	<p>NUMERIC: INTEGER C122</p> <p>-----</p>
<p>C123.How much did you pay for the rechargeable battery(ies) %rostertitle%?</p> <p>I Don't know.....888 E C118 == 2</p>	<p>NUMERIC: INTEGER C123</p> <p>-----</p>
<p>C124. How many recharges for all battery %rostertitle% does your household have in a typical month?</p> <p>I Don't know.....888</p>	<p>NUMERIC: INTEGER C124</p> <p>-----</p>
<p>C125.Do you pay someone/some entity outside the household to recharge the battery on a regular basis?</p>	<p>SINGLE-SELECT C125</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>C126. How much does your household spend in a typical month to recharge the batteries (in total)?</p> <p>I Local currency Don't Know.....888 E C125 == 1</p>	<p>NUMERIC: INTEGER C126</p> <p>-----</p>
<p>C127. What is the electricity source used to recharge the battery?</p>	<p>SINGLE-SELECT C127</p> <p>001 <input type="radio"/> National grid 002 <input type="radio"/> Local mini-grid 003 <input type="radio"/> Electric generator 004 <input type="radio"/> Solar 555 <input type="radio"/> Other, specify</p>
<p>C127. Specify Others</p> <p>E C127 == 555</p>	<p>TEXT C127_SO</p> <p>-----</p>
<p>C128.Is battery recharging limited by availability of electricity from %C127%?</p>	<p>SINGLE-SELECT C128</p> <p>001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't know</p>
<p>C129. How many hours can you use rechargeable batteries for electricity supply each day when fully charged if you wanted to?</p>	<p>NUMERIC: INTEGER C129</p> <p>-----</p>

<p>(max 24 hours)</p> <p>I Hours Don't Know.....888</p> <p>V1 self < 25 self == 888</p> <p>M1 Please enter less than or equal to 24 or 888</p>	
<p>C130.How many hours can you use rechargeable batteries for electricity supply each evening, from 6:00 pm to 10:00 pm if you wanted to?</p> <p>I Don't..888, Max 4 Hrs</p> <p>V1 self < 5 self == 888</p> <p>M1 Please enter less than or equal to 4 or 888</p>	<p>NUMERIC: INTEGER C130</p> <p>-----</p>
<p>C131. How many hours do you actually use rechargeable batteries for electricity supply each day?</p> <p>I Don't Know.....888</p> <p>V1 self <= C129 self == 888</p> <p>M1 Error ! Please enter less than or equal to %C129% or 888</p>	<p>NUMERIC: INTEGER C131</p> <p>-----</p>
<p>C132.How many hours do you actually use rechargeable batteries for electricity supply each evening, from 6:00 pm to 10:00 pm?</p> <p>I Don't Know.....888</p> <p>V1 self <= C130 self == 888</p> <p>M1 Please enter less than or equal than %C130% or 888</p>	<p>NUMERIC: INTEGER C132</p> <p>-----</p>
<p>C133.What are the most serious problems you experience with the rechargeable batteries?</p> <p>I Record up to 2 responses.</p>	<p>MULTI-SELECT: ORDERED C133</p> <p>001 <input type="checkbox"/> Supply shortage/not enough hours of electricity</p> <p>002 <input type="checkbox"/> Too expensive</p> <p>003 <input type="checkbox"/> Cannot power large appliances</p> <p>004 <input type="checkbox"/> Recharging is not convenient</p> <p>005 <input type="checkbox"/> Maintenance & repair is difficult</p> <p>006 <input type="checkbox"/> Cannot recharge battery to full capacity</p> <p>555 <input type="checkbox"/> Other, specify</p> <p>111 <input type="checkbox"/> No problems</p>
<p>C133. Specify Others</p> <p>E C133.Contains (555)</p>	<p>TEXT C133_SO</p> <p>-----</p>
<p>134.In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the rechargeable batteries (for example, serious bodily injury because of electric shocks, fire/sparks due to short circuit/voltage surge)?</p> <p>E C115 == 1</p>	<p>SINGLE-SELECT C134</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C134.A. What was the reasons for this injury?</p> <p>E C134 == 1</p>	<p>SINGLE-SELECT C134_A</p> <p>001 <input type="radio"/> Carelessness or error</p> <p>002 <input type="radio"/> Lack of knowledge about the use of the appliance</p> <p>003 <input type="radio"/> Faulty wiring or wiring with exposed wires</p> <p>555 <input type="radio"/> Other, specify</p>
<p>C134.A. Specify Others</p>	<p>TEXT C134_A_SO</p>

E C134_A == 555

C135.Interviewer/CAPI check: In the last 12 months, did the household use any of the following solar based devices? Multiple responses possible.

I Ask about all devices in order of importance (Example: Main Solar System is Device 1)

E C_AVAILABLE == 1

MULTI-SELECT

C135

- 01 Solar lanterns
- 02 Solar lighting system
- 03 Solar home system
- 04 None

STATIC TEXT

E C_AVAILABLE == 1 && C135.Contains(1)

Solar Lanterns



STATIC TEXT

E C_AVAILABLE == 1 && C135.Contains(2)

Solar Lighting System



STATIC TEXT

E C_AVAILABLE == 1 && C135.Contains(3)

Solar Home System



C136.How many solar lanterns do you have?

NUMERIC: INTEGER

C136

I Number of solar lanterns E C135.Contains(1)	-----
C137. How many solar lighting systems (2+lights with cell phone charger and/or radio) do you have?	NUMERIC: INTEGER C137 -----
I Number of solar lighting system E C135.Contains(2)	
C138. How many solar home systems (2+ lights with cell phone charger and TV/fan/fridge) do you have?	NUMERIC: INTEGER C138 -----
I Number of solar home system E C135.Contains(3)	

C. SUPPLY AND DEMAND OF ELECTRICITY
Roster: SOLAR BASED DEVICE
generated by multi-select question C135

R_SD

E C_AVAILABLE == 1 && C135.ContainsAny(1,2,3)

C141.What is the manufacturer and model of the %rosteritle% ?	TEXT C141 -----
I Don't Know ..888	
C142.Does this %rosteritle% have a mobile charger?	SINGLE-SELECT C142 01 <input type="radio"/> Yes 02 <input type="radio"/> No
C142.B Does this %rosteritle% have a radio?	SINGLE-SELECT C142_B 01 <input type="radio"/> Yes 02 <input type="radio"/> No
C143.Is this %rosteritle%your MAIN solar device?	SINGLE-SELECT C143 01 <input type="radio"/> Yes 02 <input type="radio"/> No
C144. What is the type of solar device?	SINGLE-SELECT C144 01 <input type="radio"/> Solar Lantern 02 <input type="radio"/> Solar lighting system 03 <input type="radio"/> Solar Home System
V1 (self == 1 && C135.Contains(1)) (self == 2 && C135.Contains(2)) (self == 3 && C135.Contains(3)) M1 Error! Please select the valid response.	
C145.How many light bulbs are there (that can be separated from each other)?	NUMERIC: INTEGER C145 -----
I NUMBER OF LIGHT BULBS E C144 != 1	
C146.What is the power rating of the solar panel?	NUMERIC: INTEGER C146 -----
I If unknown, enter "888", Read the name plate of the solar panel, Watt-Peak (Wp) E C144 != 1	
C148.What is the capacity of the battery?	NUMERIC: INTEGER C148 -----
I Don't Know ..888 E C144 != 1 && C146 != 888	
C149.Do you have an inverter?	SINGLE-SELECT C149

	01 <input type="radio"/> Yes 02 <input type="radio"/> No	
C150.How many years have you had this %rosteritle% I Record in years, if less than 1, record 1 V1 self < 100 M1 Too many. Please check.	NUMERIC: DECIMAL -----	C150
C151.Who decided to purchase/ acquire this %rosteritle% I MEMBER ID	SINGLE-SELECT: LINKED	C151
C152.Did you buy this %rosteritle% paying upfront or under installment, do you rent it/pay a fee to use it, or did you receive it for free?	SINGLE-SELECT 01 <input type="radio"/> Bought, fully paid 02 <input type="radio"/> Bought, under installment 03 <input type="radio"/> Rent/pay fee to use 04 <input type="radio"/> Received for free	C152
C153.Who gave you this %rosteritle% E C152 == 4	SINGLE-SELECT 001 <input type="radio"/> Local private organizations (NGO) 002 <input type="radio"/> Chief of village 003 <input type="radio"/> Local government 004 <input type="radio"/> Relative/Friend 555 <input type="radio"/> Other, specify	C153
C153. Specify Others E C153 == 555	TEXT -----	C153_SO
C154.How much did you pay for this %rosteritle% upfront? : Full amount E C152 == 1	NUMERIC: INTEGER -----	C154_FULL
C154.How much did you pay for this %rosteritle% upfront? : PARTIAL E C152 == 2	NUMERIC: INTEGER -----	C154_PARTIAL
C155.What payment system do you use? E C152 == 3	SINGLE-SELECT 01 <input type="radio"/> Mobile Pay-as-you-go 02 <input type="radio"/> Other Pay-as-you go (scratch card, etc.) 03 <input type="radio"/> Fixed fee	C155
C156.What is the monthly payment for %rosteritle% (INSTALLMENT/ FEE TO RENT/USE)? E C154_PARTIAL >= 0 C152 == 3	NUMERIC: INTEGER -----	C156
C157.Did/do you borrow money to make your payment for %rosteritle% E C152 <= 3 C154_FULL >= 0	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	C157
C158.Did you receive information and training on this %rosteritle%	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	C158

A. WORST MONTHS

E C161 == 1

<p>C163. How many hours do you receive service from this %IMP_SOLAR_DEVICE% each day and night?</p> <p>I Don't know.....888</p> <p>V1 self <= 24 self == 888</p> <p>M1 Please enter less than 25 or 888.</p>	<p>NUMERIC: INTEGER C163_A</p> <p>-----</p>
<p>C164. How many hours is service available from this %IMP_SOLAR_DEVICE% each evening, from 6:00 pm to 10:00 pm?</p> <p>I Don't know.....888</p> <p>V1 self <= 4 self == 888</p> <p>M1 Please enter less than 5 or 888.</p>	<p>NUMERIC: INTEGER C164_A</p> <p>-----</p>
<p>C165. How many hours do you actually use the %IMP_SOLAR_DEVICE% each day for lighting and other applications?</p> <p>I Don't know.....888</p> <p>V1 self <= C163_A self == 888</p> <p>M1 Please enter less than or equal to %C163_A% or 888</p>	<p>NUMERIC: INTEGER C165_A</p> <p>-----</p>

B. TYPICAL MONTH

<p>C163. How many hours do you receive service from this %IMP_SOLAR_DEVICE% each day and night?</p> <p>I Don't know.....888</p> <p>V1 self <= 24 self == 888</p> <p>M1 Please enter less than 25 or 888</p>	<p>NUMERIC: INTEGER C163_B</p> <p>-----</p>
<p>C164. How many hours is service available from this %IMP_SOLAR_DEVICE% each evening, from 6:00 pm to 10:00 pm?</p> <p>I Don't know.....888</p> <p>V1 self <= 4 self == 888</p> <p>M1 Please enter less than 5 or 888</p>	<p>NUMERIC: INTEGER C164_B</p> <p>-----</p>
<p>C165. How many hours do you actually use the %IMP_SOLAR_DEVICE% each day for lighting and other applications?</p> <p>I Don't know.....888</p> <p>V1 self <= C163_B self == 888</p> <p>M1 Please enter less than %C163_B% or 888</p>	<p>NUMERIC: INTEGER C165_B</p> <p>-----</p>
<p>166. In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the %IMP_SOLAR_DEVICE% (for example, serious bodily injury because of electric shocks, fire/sparks due to short circuit/voltage surge)?</p> <p>E C_AVAILABLE == 1 && C135.ContainsAny(1,2,3)</p>	<p>SINGLE-SELECT C166</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C166.A. What was the reasons for this injury?</p> <p>E C166 == 1</p>	<p>SINGLE-SELECT C166_A</p> <p>0001 <input type="radio"/> Carelessness or error</p>

	0002 <input type="radio"/> Lack of knowledge about the use of the appliance 0003 <input type="radio"/> Faulty wiring or wiring with exposed wires 5555 <input type="radio"/> Other, specify
<p>C167.Is there any device you do not have that you would like to have?</p> <p>E C_AVAILABLE == 1 && C135.ContainsAny(1,2,3)</p>	SINGLE-SELECT C167 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't know
<p>C168.What devices would you most like to have?</p> <p>I Multiple response (Up to three devices) E C167.InList(1) && C135.ContainsAny(1,2,3)</p>	MULTI-SELECT C168 001 <input type="checkbox"/> Television 002 <input type="checkbox"/> Fan 003 <input type="checkbox"/> Refrigerator 004 <input type="checkbox"/> Radio 005 <input type="checkbox"/> Tablet/laptop/computer 006 <input type="checkbox"/> Mobile phone charger 555 <input type="checkbox"/> Other, specify 888 <input type="checkbox"/> Don't know/refuse to answer
<p>C168. Specify Others</p> <p>E C168.Contains(555)</p>	TEXT C168_SO
<p>C169.Overall, how satisfied with the service provided by the main solar device?</p> <p>E C_AVAILABLE == 1 && C135.ContainsAny(1,2,3)</p>	SINGLE-SELECT C169 01 <input type="radio"/> Very satisfied 02 <input type="radio"/> Somewhat satisfied 03 <input type="radio"/> Neutral 04 <input type="radio"/> Unsatisfied 05 <input type="radio"/> Very unsatisfied
<p>C170.In what year did you get your first solar device?</p> <p>I Don't know.....888 E C_AVAILABLE == 1 && C135.ContainsAny(1,2,3) V1 self.InRange(1990,2074) self == 888 M1 Error! Please check.</p>	NUMERIC: INTEGER C170 -----
<p>C171.Has solar been your main source of lighting/electricity since %C170%?</p> <p>E C_AVAILABLE == 1 && C135.ContainsAny(1,2,3)</p>	SINGLE-SELECT C171 01 <input type="radio"/> Yes 02 <input type="radio"/> No
<p>C172.What was your main source of lighting/electricity when it was not a solar device?</p> <p>E (C171 == 2 C171 == 888) && C135.ContainsAny(1,2,3)</p>	SINGLE-SELECT C172 001 <input type="radio"/> National grid connection 002 <input type="radio"/> Local mini grid connection 003 <input type="radio"/> Electric generator 004 <input type="radio"/> Rechargeable battery and storage devices (e.g.: car battery) 005 <input type="radio"/> Pico-hydro 006 <input type="radio"/> Kerosene lamp 007 <input type="radio"/> Fuel-based lighting 008 <input type="radio"/> Dry-cell (non-rechargeable) battery/ Torch/Flashlight 009 <input type="radio"/> Candle 555 <input type="radio"/> Other, specify
<p>C172. Specify Others</p>	TEXT C172_SO

<p>E C172 == 555</p> <hr/> <p>C173. Compared to the first time you used solar lighting, do you currently...</p> <p>I Read aloud options</p> <p>E C_AVAILABLE == 1 && C135.ContainsAny(1,2,3)</p>	<p>-----</p> <p>SINGLE-SELECT C173</p> <p>01 <input type="radio"/> Use more solar lighting</p> <p>02 <input type="radio"/> Use about the same solar lighting</p> <p>03 <input type="radio"/> Use less solar lighting</p>
<p>C174. What appliances do you use today that you did not use with your first solar lighting device?</p> <p>E C173.InList(1,2,888) && C135.ContainsAny(1,2,3)</p>	<p>MULTI-SELECT C174</p> <p>001 <input type="checkbox"/> Mobile phone charger</p> <p>002 <input type="checkbox"/> Radio</p> <p>003 <input type="checkbox"/> TV</p> <p>004 <input type="checkbox"/> Fan</p> <p>005 <input type="checkbox"/> Refrigerator</p> <p>006 <input type="checkbox"/> No change</p> <p>555 <input type="checkbox"/> Other, specify</p>
<p>C174. Specify Others</p> <p>E C174.Contains(555)</p>	<p>TEXT C174_SO</p> <p>-----</p>

C. SUPPLY AND DEMAND OF ELECTRICITY
MAIN SOURCE OF ELECTRICITY

<p>E C_AVAILABLE == 1</p>	
<p>C175. Of all the sources that you mentioned above, which is the source that you use the most in your household?</p> <p>V1 (self == 1 && C2 == 1) (self == 2 && C44 == 2) (self == 3 && C84 == 1) (self.InList(4,5,6) && C135.ContainsAny(1,2,3)) (self == 7 && C115 == 1) self.InList(8,9,111,555)</p> <p>M1 Error! Please select valid options</p>	<p>SINGLE-SELECT C175</p> <p>001 <input type="radio"/> National Grid Connection</p> <p>002 <input type="radio"/> Local Mini Grid connection</p> <p>003 <input type="radio"/> Electric generator</p> <p>004 <input type="radio"/> Solar Lantern</p> <p>005 <input type="radio"/> Solar Lighting System (2+ lights with cell phone charging and/or radio)</p> <p>006 <input type="radio"/> Solar Home System (2+ lights with cell phone charging, and TV/fan/fridge)</p> <p>007 <input type="radio"/> Rechargeable Battery</p> <p>008 <input type="radio"/> Pico-hydro</p> <p>009 <input type="radio"/> Dry-cell battery</p> <p>111 <input type="radio"/> No electricity</p> <p>555 <input type="radio"/> Other, specify</p>
<p>C175. Specify Others</p> <p>E C175 == 555</p>	<p>TEXT C175_SO</p> <p>-----</p>

C. SUPPLY AND DEMAND OF ELECTRICITY / MAIN SOURCE OF ELECTRICITY
CHARGING MOBILE PHONE

<p>C176. How many mobile phones do the household members own combined?</p>	<p>NUMERIC: INTEGER C176</p> <p>-----</p>
<p>C177. Are members of your household able to charge all their mobile phones as often as they need inside your dwelling?</p> <p>E C176 > 0</p>	<p>SINGLE-SELECT C177</p> <p>001 <input type="radio"/> Yes</p> <p>002 <input type="radio"/> No</p> <p>888 <input type="radio"/> Don't know</p>

<p>C178. Can you charge at least one mobile phone to full charge everyday inside your dwelling?</p> <p>E C177.InList (2,888)</p>	<p>SINGLE-SELECT C178</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C179.Can you charge at least one mobile phone to full charge in 3 days inside your dwelling?</p> <p>E C178 == 2</p>	<p>SINGLE-SELECT C179</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C180.How many mobile phones of your household members do you charge outside your dwelling?</p> <p>E C178 == 2</p> <p>V1 self <= C176</p> <p>M1 Please enter less than or equal to %C176%.</p>	<p>NUMERIC: INTEGER C180</p> <p>-----</p>
<p>C181.Do members of your household have to go more than 500 meters (walk more than 5 minutes) to charge your mobile phones outside your dwelling?</p> <p>E C180 > 0</p>	<p>SINGLE-SELECT C181</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C182.How much does your household spend each month (in total) on charging the mobile phone(s) outside your dwelling?</p> <p>E C180 > 0</p>	<p>NUMERIC: INTEGER C182</p> <p>-----</p>

D. WILLINGNESS TO PAY FOR A GRID CONNECTION

STATIC TEXT

Respondent should be most knowledgeable member on household electricity. For each household, CAPI will randomly assign one of the six following amounts in the placeholder \${CF}: 0% of the connection fee in local currency and respectively 15%, 30%, 40%, 60%, 70%, 100%.

Random amount for new connection

NUMERIC: INTEGER
SCOPE: IDENTIFYING

Rand_Amt_D

D2. Enumerator: Record Respondent name for this section

SINGLE-SELECT: LINKED

D2

E C2 == 2

STATIC TEXT

E C2 == 2

Electricity requires several types of payments. There are three parts to the cost of electricity: connection, wiring, and monthly use. In other words, to use electricity you need to have a wire from a meter in your house to the pole first. That is the connection. You also need to have wires to connect appliances within your house to the meter. This is the wiring. Finally, to keep using electricity you must pay for what is used and measured by the meter, or it will be turned off, this is the cost of monthly use. I would like to ask you questions only about the first cost of connecting – getting a wire from the electricity poles to a meter on your house. If you could pay a “lump sum” price for an electricity connection, in other words, you are offered a price and a period of time to decide whether to take this price. If you decide to take the price, you have to pay all at once, after which you are immediately connected. As you answer the next few questions, assume that all other wiring fees and monthly service fees for using electricity, once you have the connection, remain the same as they are now.

D3.Would you be willing to pay NPR %Rand_Amt_D% for an electricity connection?

SINGLE-SELECT

D3

01 Yes

E C2 == 2	02 <input type="radio"/> No
Please enter the amount displayed %Rand_Amt_D%	NUMERIC: DECIMAL D3_Amount -----
E C2 == 2	
VARIABLE (Rand_Amt_D/3)	DOUBLE Rand_Amt_D_3
D4.Would you be willing to pay NPR %Rand_Amt_D% for an electricity connection, if you were given 3 months to make the payment?	SINGLE-SELECT D4 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't Know
E D3 == 2	
Please enter the amount displayed %Rand_Amt_D%	NUMERIC: INTEGER D4_Amount -----
E D3 == 2	
VARIABLE Rand_Amt_D/6	DOUBLE Rand_Amt_D_6
D5.Would you be willing to pay NPR %Rand_Amt_D% for an electricity connection, if you were given 6 months to make the payment?	SINGLE-SELECT D5 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't Know
E D4 == 2	
Please enter the amount displayed %Rand_Amt_D%	NUMERIC: DECIMAL D5_Amount -----
E D4 == 2	
VARIABLE Rand_Amt_D/12	DOUBLE Rand_Amt_D_12
D6.Would you be willing to pay NPR %Rand_Amt_D% for an electricity connection, if you were given 12 months to make the payment?	SINGLE-SELECT D6 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't Know
E D5 == 2	
Please enter the amount displayed %Rand_Amt_D%	NUMERIC: DECIMAL D6_Amount -----
E D5 == 2	
D7.If the connection fee were waived, would you get a grid connection?	SINGLE-SELECT D7 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't Know
E D6 == 2 D6 == 888	
D8.Why would you not accept the offer?	SINGLE-SELECT D8 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Electricity service is unreliable 004 <input type="radio"/> Monthly fee is too expensive 555 <input type="radio"/> Other, specify
E D7 == 2 D7 == 888	
D8. Specify Others	TEXT D8_SO

<p>E D8 == 555</p>	<p>.....</p>
<p>D9.How much do you think it would cost to do all the internal electrical wiring in your house?</p> <p>I Don't Know.....888</p> <p>E D7 == 2 D7 == 888 D3 == 1 D4 == 1 D5 == 1 D6 == 1</p>	<p>NUMERIC: INTEGER D9</p> <p>-----</p>
<p>D10.Think about the amount you would need to spend each month for electricity, not the connection fee. How much would you need to spend each month for electricity?</p> <p>I Don't Know.....888</p> <p>E D7 == 2 D7 == 888</p>	<p>NUMERIC: INTEGER D10</p> <p>-----</p>

E. WILLINGNESS TO PAY FOR IMPROVED ELECTRICITY SUPPLY

<p>Enter the amount for improved electricity supply displayed above:</p>	<p>NUMERIC: INTEGER Amount_E SCOPE: IDENTIFYING</p> <p>-----</p>
<p>E2. Do you experience electricity outages?</p> <p>E C2 == 1</p>	<p>SINGLE-SELECT E2</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>E3.Did the household experience power outages 1 year ago?</p> <p>E E2 == 1</p>	<p>SINGLE-SELECT E3</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>E4.How many days of electricity outages one year ago did you experience on a typical month?</p> <p>E E3 == 1</p> <p>V1 self <33</p> <p>M1 Error! Please enter less than or equal to 32.</p>	<p>NUMERIC: INTEGER E4</p> <p>-----</p>
<p>E5.Would you be willing to pay an additional %Amount_E% on your monthly electricity bill to avoid going back to the experience of the power outages from 1 year ago?</p> <p>E E3 == 1</p>	<p>SINGLE-SELECT E5</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>E6.How much would you be willing to pay additional, at the most, to avoid experiencing same level of electricity outages as one year ago?</p> <p>I In NPR.</p> <p>E E3 == 1</p> <p>V1 (self >= Amount_E && E5 == 1) (self < Amount_E && E5 == 2)</p> <p>M1 Error! Please check.</p>	<p>NUMERIC: DECIMAL E6</p> <p>-----</p>

F. WILLINGNESS TO PAY FOR SOLAR DEVICE

STATIC TEXT

For each household, CAPI will 1) randomly assign a Tier 2 (high capacity: enough to power a television) or Tier 1 (low capacity: multiple lightbulbs and mobile charging) solar home system; and 2) randomly one of the three following amounts in the placeholder $\{CF\}$: 33%, 66%, or 100% of the solar device in local currency. We will have the market price for the selected.

F2.Enumerator: Record Respondent name for this section	SINGLE-SELECT: LINKED	F2
--	-----------------------	----

STATIC TEXT

We will ask you questions about a solar home system. Enumerator: show picture and describe what the solar home system can and can't do and the benefits of using a solar home system.[INSERT DESCRIPTION OF SOLAR DEVICE] If you could pay a "lump sum" price for this solar device; in other words, you are offered a price and if you decide to buy the device, you will have to pay it all at once. As you answer the next few questions, keep in mind the various benefits from this device as well as your household budget.

CF	NUMERIC: INTEGER SCOPE: IDENTIFYING	CF_F
----	--	------

F3.Would you be willing to pay $\{CF_F\}$ for this solar device?	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	F3
---	--	----

VARIABLE CF_F/6	DOUBLE	CF_6
--------------------	--------	------

F4.Would you be willing to pay $\{CF_F\}$ for this solar device, if you were given 6 months to make the payment?	SINGLE-SELECT 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't Know	F4
---	--	----

E F3 == 2

VARIABLE CF_F/12	DOUBLE	CF_12
---------------------	--------	-------

F5.Would you be willing to pay $\{CF_F\}$ for this solar device, if you were given 12 months to make the payment?	SINGLE-SELECT 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't Know	F5
--	--	----

E F4 == 2 || F4 == 888

VARIABLE CF_F / 24	DOUBLE	CF_24
-----------------------	--------	-------

F6.Would you be willing to pay $\{CF_F\}$ for this solar device, if you were given 24 months to make the payment? This means that each month you will pay $\{CF/24\}$ per month for 24 months.	SINGLE-SELECT 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't Know	F6
---	--	----

E F5 == 2 || F5 == 888

F7.Why would you not accept the offer?	SINGLE-SELECT 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Maintenance/servicing of device is not available 555 <input type="radio"/> Other, specify	F7
--	---	----

E F6 == 2 || F6 == 888

F7. Others Specify	TEXT	F7_SO
--------------------	------	-------

E F7 == 555

G. KEROSENE/FUEL-BASED /CANDLE LIGHTING

G1. Enumerator: Record Respondent name for this section	SINGLE-SELECT: LINKED	G1
---	-----------------------	----

G. KEROSENE/FUEL-BASED /CANDLE LIGHTING FUEL LAMP/ CANDLE/ TASK LIGHT

G3. In the last 12 months, did you use [NAME FROM THE LIST]	MULTI-SELECT 001 <input type="checkbox"/> Candle 002 <input type="checkbox"/> Open wick lamp 003 <input type="checkbox"/> Hurricane lamp with glass cover 004 <input type="checkbox"/> Pressurized mantle lamp 005 <input type="checkbox"/> None 555 <input type="checkbox"/> Other Specify	FLCT
Specify Others	TEXT	G3_SO
E FLCT.Contains (555)	

G. KEROSENE/FUEL-BASED /CANDLE LIGHTING / FUEL LAMP/ CANDLE/TASK LIGHT Roster: FUEL LAMP/ CANDLE/ TASK LIGHT generated by multi-select question FLCT

E FLCT.ContainsAny(1,2,3,4,555) ROSTER_G

G2. Enter the name of respondent	SINGLE-SELECT: LINKED	G2
G4.What is the main fuel source for %rosteritle%?	SINGLE-SELECT 001 <input type="radio"/> Kerosene 002 <input type="radio"/> Biogas 003 <input type="radio"/> Edible Oil 555 <input type="radio"/> Other, specify	G4
E ((long?)@rowcode).InList(2,3,4,5,555)		
G4. Specify Others	TEXT	G4_SO
E G4 == 555	
G5. How many of these lamps does your household have?	NUMERIC: INTEGER	G5
E ((long?)@rowcode).InList(2,3,4,5,555)	-----	
V1 self < 6		
M1 Too many . Please check.		
G6.How much did you pay for each %rosteritle%?	TEXT	G6
I If more than 1 device, input the average	
E ((long?)@rowcode).InList(2,3,4,5,555)		
G7.In the last 12 months, how many months did you use %rosteritle%?	NUMERIC: INTEGER	G7
I Don't know888	-----	
E FLCT.ContainsAny(1,2,3,4)		
V1 self <= 12 self==888		

<p>M1 Please enter less than or equal to 12</p> <hr/> <p>G8.In the last month, how many days did you use %rostartitle%?</p> <p>E FLCT.ContainsAny(1,2,3,4) V1 self <= 32 M1 Please enter less than or equal to 32.</p>	<p>NUMERIC: INTEGER G8</p> <p>-----</p>
<p>G9.How many hours do you use %rostartitle% each day?</p> <p>I If less than 1 hour, input 0 E FLCT.ContainsAny(1,2,3,4) V1 self <= 24 M1 Please enter less than or equal to 24.</p>	<p>NUMERIC: DECIMAL G9</p> <p>-----</p>
<p>G13.What don't you like most about using the %rostartitle%?</p> <p>I 2 Options. E FLCT.ContainsAny(1,2,3,4)</p>	<p>MULTI-SELECT G13</p> <p>001 <input type="checkbox"/> Lantern too expensive 002 <input type="checkbox"/> Fuel too expensive 003 <input type="checkbox"/> Fuel not available 004 <input type="checkbox"/> Accidents can happen 005 <input type="checkbox"/> Bad for health 006 <input type="checkbox"/> Subsidies needed 007 <input type="checkbox"/> Time spent to collect fuel 555 <input type="checkbox"/> Other, specify 111 <input type="checkbox"/> No problems</p>
<p>G13. Specify Others</p> <p>E G13.Contains(555)</p>	<p>TEXT G13_SO</p> <p>-----</p>
<p>G14.In the last 12 months, what type of harm/injury did any household members have from %rostartitle%?</p> <p>E FLCT.ContainsAny(1,2,3,4)</p>	<p>MULTI-SELECT G14</p> <p>001 <input type="checkbox"/> Death or permanent limb damage 002 <input type="checkbox"/> Burns/fire 003 <input type="checkbox"/> Poisoning 004 <input type="checkbox"/> Eye problems 005 <input type="checkbox"/> Respiratory problem 006 <input type="checkbox"/> Other major injury 007 <input type="checkbox"/> Minor injury 008 <input type="checkbox"/> Fire with no injury 111 <input type="checkbox"/> None</p>
<p>G15. What is the main source of lighting the children who are currently enrolled in school usually use for studying/doing homework?</p> <p>I Single Response E FLCT.ContainsAny(1,2,3,4)</p>	<p>SINGLE-SELECT G15</p> <p>001 <input type="radio"/> Electric lighting/lamp 002 <input type="radio"/> Solar powered light source 003 <input type="radio"/> Battery-operated light source 004 <input type="radio"/> Street lighting 005 <input type="radio"/> Kerosene lamp 006 <input type="radio"/> Candles 007 <input type="radio"/> Biogas lamps 008 <input type="radio"/> No school going children 555 <input type="radio"/> Other, specify 111 <input type="radio"/> Studying and homework only during daylight hours</p>

G. KEROSENE/FUEL-BASED /CANDLE LIGHTING
KEROSENE

E ROSTER_G.Any (x=>x.G4 == 1)

<p>G2.C. What is the total quantity of kerosene you purchase at a typical time?</p> <p>I LITERS OF FUEL</p>	<p>NUMERIC: INTEGER G2C</p> <p>-----</p>
<p>G2.D. How long does this quantity of kerosene typically last?</p> <p>I Days</p> <p>V1 self < 366</p> <p>M1 Please enter less than 365.</p>	<p>NUMERIC: INTEGER G2_D</p> <p>-----</p>
<p>G2.E. How much do you pay in total for the amount of fuel you purchased?</p> <p>I LOCAL CURRENCY</p>	<p>NUMERIC: INTEGER G2_E</p> <p>-----</p>
<p>G2.F. What is the percentage of this kerosene you use for lighting?</p> <p>V1 self < 101</p> <p>M1 Please enter in range 0-100.</p>	<p>NUMERIC: INTEGER G2_F</p> <p>-----</p>

G. KEROSENE/FUEL-BASED /CANDLE LIGHTING
CANDLE

E FLCT.Contains (1)

<p>G2.C.C. What is the total quantity of Candle you purchase at a typical time?</p> <p>I Number of Candles</p>	<p>NUMERIC: INTEGER G2C_C</p> <p>-----</p>
<p>G2.D.C. How long does this quantity of Candle typically last?</p> <p>I Days</p>	<p>NUMERIC: INTEGER G2_D_C</p> <p>-----</p>
<p>G2.E.C How much do you pay in total for the amount of fuel you purchased?</p> <p>I LOCAL CURRENCY</p>	<p>NUMERIC: INTEGER G2_E_C</p> <p>-----</p>

H.DRY-CELL BATTERIES

<p>H1.Enumerator: Record Respondent name for this section</p>	<p>SINGLE-SELECT: LINKED H1</p>
<p>H3.In the last 12 months, did you use dry cell batteries to power [NAME FROM THE LIST]</p>	<p>MULTI-SELECT: YES/NO H3</p> <p>001 <input type="checkbox"/> / <input type="checkbox"/> Lanterns</p> <p>002 <input type="checkbox"/> / <input type="checkbox"/> Flashlights</p> <p>003 <input type="checkbox"/> / <input type="checkbox"/> Task lights</p> <p>004 <input type="checkbox"/> / <input type="checkbox"/> Radio</p> <p>111 <input type="checkbox"/> / <input type="checkbox"/> None</p> <p>555 <input type="checkbox"/> / <input type="checkbox"/> Other, specify</p>
<p>H3.Specify Others</p>	<p>TEXT H3_SO</p> <p>-----</p>

E H3.Yes.Contains (555)

H.DRY-CELL BATTERIES

Roster: LIGHT SOURCE

generated by multi-select question H3

R_IS

E H3.Yes.ContainsAny(1,2,3,4,555)

STATIC TEXT

LIGHT SOURCE

<p>H4.How many of %rosteritle% does your household power with dry cell batteries?</p> <p>V1 self < 6 M1 Too many. Please Check.</p>	<p>NUMERIC: INTEGER H4</p> <p>-----</p>
<p>H5.How much did you pay for each %rosteritle% on average?</p> <p>I If paying in installment, enter total value of payments,If more than 1 d evice, input the average.</p>	<p>NUMERIC: INTEGER H5</p> <p>-----</p>
<p>H6.In the last 12 months, how many months did you use %rosteritle%?</p> <p>I if less than 1 month write 0 V1 self <= 12 M1 Please enter less than or equal to 12.</p>	<p>NUMERIC: INTEGER H6</p> <p>-----</p>
<p>H7.How many minutes do you use %rosteritle% each day on a typical day?</p> <p>V1 self <= 1440 M1 Please enter less than or equal to 1440.</p>	<p>NUMERIC: INTEGER H7</p> <p>-----</p>
<p>H8.Do you use %rosteritle% as a regular source of lighting or only as a back-up source when the main source is not available?</p> <p>E ((Long?)@rowcode).InList(1,2,3,555)</p>	<p>SINGLE-SELECT H8</p> <p>01 <input type="radio"/> Regular source of lighting 02 <input type="radio"/> Back-up source of lighting 03 <input type="radio"/> No light available</p>
<p>H9.How many of dry cell batteries do you purchase each month?</p> <p>E H3.Yes.ContainsAny(1,2,3,4,555)</p>	<p>NUMERIC: INTEGER H9</p> <p>-----</p>
<p>H10.How much do you spend each month on dry cell batteries?</p> <p>I NPR E H3.Yes.ContainsAny(1,2,3,4,555) V1 self < 100001 M1 Too much. Please check.</p>	<p>NUMERIC: INTEGER H10</p> <p>-----</p>

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING

<p>Chose respondent who most frequently cooks food for the household.</p>	<p>SINGLE-SELECT: LINKED Respondent_ID_I</p>
<p>I2.Fuel Type</p>	<p>MULTI-SELECT I2</p> <p>01 <input type="checkbox"/> LPG/ cooking gas</p>

- 02 Wood
- 04 Charcoal
- 05 Solar
- 06 Kerosene
- 09 Animal waste/ Dung
- 10 Crop Residue/ Plant Biomass
- 11 Sawdust
- 13 Biomass Briquette
- 14 Electric
- 15 Pellets/ processed biomass/
wood chips
- 16 Biogas
- 18 Garbage

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING
A. LPG/ COOKING GAS

E I2.Contains (1)

<p>I3.In the last 12 months, did your house-hold use this LPG/Cooking gas?</p>	<p>SINGLE-SELECT I3_LC</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>I4.In the last 12 months, what did your household use LPG/Cooking gas for?</p> <p>E I3_LC == 1</p>	<p>MULTI-SELECT I4_I10_LC</p> <p>01 <input type="checkbox"/> LIGHTING</p> <p>02 <input type="checkbox"/> COOKING</p> <p>03 <input type="checkbox"/> HEATING</p> <p>04 <input type="checkbox"/> FIRE STARTER/ IGNITION</p> <p>05 <input type="checkbox"/> BOILING WATER</p> <p>06 <input type="checkbox"/> HOME-BASED INCOME ACTIVITY</p>
<p>I11. In the last 12 months, in which months did you use this LPG/Cooking gas?</p> <p>E I3_LC == 1</p>	<p>MULTI-SELECT I11_LC</p> <p>111 <input type="checkbox"/> Used all year</p> <p>001 <input type="checkbox"/> 13th April-13th May</p> <p>002 <input type="checkbox"/> 14th May-14th June</p> <p>003 <input type="checkbox"/> 15th June-15th July</p> <p>004 <input type="checkbox"/> 16th July-16th August</p> <p>005 <input type="checkbox"/> 17th August-16th September</p> <p>006 <input type="checkbox"/> 17th September-16th October</p> <p>007 <input type="checkbox"/> 17th October-15th November</p> <p>008 <input type="checkbox"/> 16th November-15th December</p> <p>009 <input type="checkbox"/> 16th December-13th January</p> <p>010 <input type="checkbox"/> 14th January-11th February</p> <p>011 <input type="checkbox"/> 12th February-13th March</p> <p>012 <input type="checkbox"/> 14th March-13th April</p> <p>888 <input type="checkbox"/> Don't Know</p>
<p>I12.In the last 12 months, in which months was this LPG/Cooking gas scarce and significantly more expensive?</p> <p>E I3_LC == 1</p>	<p>MULTI-SELECT I12_LC</p> <p>111 <input type="checkbox"/> Available all year</p> <p>001 <input type="checkbox"/> 13th April-13th May</p> <p>002 <input type="checkbox"/> 14th May-14th June</p> <p>003 <input type="checkbox"/> 15th June-15th July</p> <p>004 <input type="checkbox"/> 16th July-16th August</p> <p>005 <input type="checkbox"/> 17th August-16th September</p> <p>006 <input type="checkbox"/> 17th September-16th October</p>

	011 <input type="checkbox"/> 12th February-13th March 012 <input type="checkbox"/> 14th March-13th April 888 <input type="checkbox"/> Don't Know
I13. In the last 7 days, how much of this Wood did your household use? I kg E I13_WP == 1	NUMERIC: INTEGER I13_WP -----
I15. How much of this Wood did you purchase? I kg, DO NOT PURCHASE...111 E I13_WP > 0	NUMERIC: INTEGER I15_WP -----
I16. How long does this quantity of Wood typically last? E I15_WP > 0 && I15_WP != 111	NUMERIC: INTEGER I16_WP -----
I17. How much did you pay for the amount of Wood that you purchased? E I15_WP > 0 && I15_WP != 111	NUMERIC: INTEGER I17_WP -----

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING
D. CHARCOAL

E I2.Contains(4)

I3. In the last 12 months, did your household use this Charcoal?	SINGLE-SELECT I3_CC 01 <input type="radio"/> Yes 02 <input type="radio"/> No
I4. In the last 12 months, what did your household use Charcoal for? E I3_CC == 1	MULTI-SELECT I4_I10_CC 01 <input type="checkbox"/> LIGHTING 02 <input type="checkbox"/> COOKING 03 <input type="checkbox"/> HEATING 04 <input type="checkbox"/> FIRE STARTER/ IGNITION 05 <input type="checkbox"/> BOILING WATER 06 <input type="checkbox"/> HOME-BASED INCOME ACTIVITY
I11. In the last 12 months, in which months did you use this Charcoal? E I3_CC == 1	MULTI-SELECT I11_CC 111 <input type="checkbox"/> Used all year 001 <input type="checkbox"/> 13th April-13th May 002 <input type="checkbox"/> 14th May-14th June 003 <input type="checkbox"/> 15th June-15th July 004 <input type="checkbox"/> 16th July-16th August 005 <input type="checkbox"/> 17th August-16th September 006 <input type="checkbox"/> 17th September-16th October 007 <input type="checkbox"/> 17th October-15th November 008 <input type="checkbox"/> 16th November-15th December 009 <input type="checkbox"/> 16th December-13th January 010 <input type="checkbox"/> 14th January-11th February 011 <input type="checkbox"/> 12th February-13th March 012 <input type="checkbox"/> 14th March-13th April 888 <input type="checkbox"/> Don't Know
I12. In the last 12 months, in which months was	MULTI-SELECT I12_CC

	012 <input type="checkbox"/> 14th March-13th April 888 <input type="checkbox"/> Don't Know
I12.In the last 12 months, in which months was this Animal waste/Dung scarce and significantly more expensive? E I3_AWD == 1	MULTI-SELECT I12_AWD 111 <input type="checkbox"/> Available all year 001 <input type="checkbox"/> 13th April-13th May 002 <input type="checkbox"/> 14th May-14th June 003 <input type="checkbox"/> 15th June-15th July 004 <input type="checkbox"/> 16th July-16th August 005 <input type="checkbox"/> 17th August-16th September 006 <input type="checkbox"/> 17th September-16th October 007 <input type="checkbox"/> 17th October-15th November 008 <input type="checkbox"/> 16th November-15th December 009 <input type="checkbox"/> 16th December-13th January 010 <input type="checkbox"/> 14th January-11th February 011 <input type="checkbox"/> 12th February-13th March 012 <input type="checkbox"/> 14th March-13th April 888 <input type="checkbox"/> Don't Know
I13.In the last 7 days, how much of this Animal waste/Dung did your household use? I kg E I3_AWD == 1	NUMERIC: INTEGER I13_AWD -----
I15.How much of this Animal waste/Dung did you purchase? I kg,DO NOT PURCHASE....111 E I13_AWD > 0	NUMERIC: INTEGER I15_AWS -----
I16.How long does this quantity of Animal waste/Dung typically last? E I15_AWS > 0 && I15_AWS != 111	NUMERIC: INTEGER I16_AWS -----
I17.How much did you pay for the amount of Animal waste/Dung that you purchased? E I15_AWS > 0 && I15_AWS != 111	NUMERIC: INTEGER I17_AWS -----

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING
J. CROP RESIDUE/ PLANT BIOMASS

E I2.Contains (10)

I3.In the last 12 months, did your house-hold use this Crop Residue/ Plant Biomass?	SINGLE-SELECT I3_CRPB 01 <input type="radio"/> Yes 02 <input type="radio"/> No
I4.In the last 12 months, what did your household use Crop Residue/ Plant Biomass for? E I3_CRPB == 1	MULTI-SELECT I4_I10_CRPB 01 <input type="checkbox"/> LIGHTING 02 <input type="checkbox"/> COOKING 03 <input type="checkbox"/> HEATING 04 <input type="checkbox"/> FIRE STARTER/ IGNITION 05 <input type="checkbox"/> BOILING WATER 06 <input type="checkbox"/> HOME-BASED INCOME ACTIVITY
I11. In the last 12 months, in which months did	MULTI-SELECT I11_CRPB

I16.How long does this quantity of Sawdust typically last?	NUMERIC: INTEGER I16_SD
E I15_SD > 0 && I15_SD != 111	-----
I17.How much did you pay for the amount of Sawdust that you purchased?	NUMERIC: INTEGER I17_SD
E I15_SD > 0 && I15_SD != 111	-----

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING
M. BIOMASS BRIQUETTE

E I2.Contains (13)

I3.In the last 12 months, did your house-hold use this Biomass Briquette?	SINGLE-SELECT I3_BB 01 <input type="radio"/> Yes 02 <input type="radio"/> No
I4.In the last 12 months, what did your household use Biomass Briquette for?	MULTI-SELECT I4_I10_BB 01 <input type="checkbox"/> LIGHTING 02 <input type="checkbox"/> COOKING 03 <input type="checkbox"/> HEATING 04 <input type="checkbox"/> FIRE STARTER/ IGNITION 05 <input type="checkbox"/> BOILING WATER 06 <input type="checkbox"/> HOME-BASED INCOME ACTIVITY
I11. In the last 12 months, in which months did you use this Biomass Briquette?	MULTI-SELECT I11_BB 111 <input type="checkbox"/> Used all year 001 <input type="checkbox"/> 13th April-13th May 002 <input type="checkbox"/> 14th May-14th June 003 <input type="checkbox"/> 15th June-15th July 004 <input type="checkbox"/> 16th July-16th August 005 <input type="checkbox"/> 17th August-16th September 006 <input type="checkbox"/> 17th September-16th October 007 <input type="checkbox"/> 17th October-15th November 008 <input type="checkbox"/> 16th November-15th December 009 <input type="checkbox"/> 16th December-13th January 010 <input type="checkbox"/> 14th January-11th February 011 <input type="checkbox"/> 12th February-13th March 012 <input type="checkbox"/> 14th March-13th April 888 <input type="checkbox"/> Don't Know
I12.In the last 12 months, in which months was this Biomass Briquette scarce and significantly more expensive?	MULTI-SELECT I12_BB 111 <input type="checkbox"/> Available all year 001 <input type="checkbox"/> 13th April-13th May 002 <input type="checkbox"/> 14th May-14th June 003 <input type="checkbox"/> 15th June-15th July 004 <input type="checkbox"/> 16th July-16th August 005 <input type="checkbox"/> 17th August-16th September 006 <input type="checkbox"/> 17th September-16th October 007 <input type="checkbox"/> 17th October-15th November 008 <input type="checkbox"/> 16th November-15th December 009 <input type="checkbox"/> 16th December-13th January 010 <input type="checkbox"/> 14th January-11th February 011 <input type="checkbox"/> 12th February-13th March

012 14th March-13th April
888 Don't Know

I13.In the last 7 days, how much of this Biomass Briquette did your household use? I kg	NUMERIC: INTEGER I13_BB -----
I15.How much of this Biomass Briquette did you purchase? I kg,DO NOT PURCHASE....111 E I13_BB > 0	NUMERIC: INTEGER I15_BB -----
I16.How long does this quantity of Biomass Briquette typically last? E I15_BB > 0 && I15_BB != 111	NUMERIC: INTEGER I16_BB -----
I17.How much did you pay for the amount of Biomass Briquette that you purchased? E I15_BB > 0 && I15_BB != 111	NUMERIC: INTEGER I17_BB -----

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING
N. ELECTRIC

E I2.Contains (14)

I3.In the last 12 months, did your house-hold use this Electric?	SINGLE-SELECT I3_EC 01 <input type="radio"/> Yes 02 <input type="radio"/> No
I4.In the last 12 months, what did your household use Electric for? E I3_EC > 0	MULTI-SELECT I4_I10_EC 01 <input type="checkbox"/> LIGHTING 02 <input type="checkbox"/> COOKING 03 <input type="checkbox"/> HEATING 04 <input type="checkbox"/> FIRE STARTER/ IGNITION 05 <input type="checkbox"/> BOILING WATER 06 <input type="checkbox"/> HOME-BASED INCOME ACTIVITY

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING
O. PELLETS/ PROCESSED BIOMASS/ WOOD CHIP

E I2.Contains (15)

I3.In the last 12 months, did your house-hold use this .Pellets/ processed biomass/ wood chips?	SINGLE-SELECT I3_PB 01 <input type="radio"/> Yes 02 <input type="radio"/> No
I4.In the last 12 months, what did your household use Pellets/processed biomass/wood chips for? E I3_PB == 1	MULTI-SELECT I4_I10_PB 01 <input type="checkbox"/> LIGHTING 02 <input type="checkbox"/> COOKING 03 <input type="checkbox"/> HEATING 04 <input type="checkbox"/> FIRE STARTER/ IGNITION 05 <input type="checkbox"/> BOILING WATER 06 <input type="checkbox"/> HOME-BASED INCOME ACTIVITY
I11. In the last 12 months, in which months did	MULTI-SELECT I11_PB

E I2.Contains(16)

<p>I3.In the last 12 months, did your house-hold use this Biogas?</p>	<p>SINGLE-SELECT I3_BG 01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>I4.In the last 12 months, what did your household use Biogas for?</p> <p>E I3_BG == 1</p>	<p>MULTI-SELECT I4_I10_BG 01 <input type="checkbox"/> LIGHTING 02 <input type="checkbox"/> COOKING 03 <input type="checkbox"/> HEATING 04 <input type="checkbox"/> FIRE STARTER/ IGNITION 05 <input type="checkbox"/> BOILING WATER 06 <input type="checkbox"/> HOME-BASED INCOME ACTIVITY</p>
<p>I11. In the last 12 months, in which months did you use this Biogas?</p> <p>E I3_BG == 1</p>	<p>MULTI-SELECT I11_BG 111 <input type="checkbox"/> Used all year 001 <input type="checkbox"/> 13th April-13th May 002 <input type="checkbox"/> 14th May-14th June 003 <input type="checkbox"/> 15th June-15th July 004 <input type="checkbox"/> 16th July-16th August 005 <input type="checkbox"/> 17th August-16th September 006 <input type="checkbox"/> 17th September-16th October 007 <input type="checkbox"/> 17th October-15th November 008 <input type="checkbox"/> 16th November-15th December 009 <input type="checkbox"/> 16th December-13th January 010 <input type="checkbox"/> 14th January-11th February 011 <input type="checkbox"/> 12th February-13th March 012 <input type="checkbox"/> 14th March-13th April 888 <input type="checkbox"/> Don't Know</p>
<p>I12.In the last 12 months, in which months was this Biogas scarce and significantly more expensive?</p> <p>E I3_BG == 1</p>	<p>MULTI-SELECT I12_BG 111 <input type="checkbox"/> Available all year 001 <input type="checkbox"/> 13th April-13th May 002 <input type="checkbox"/> 14th May-14th June 003 <input type="checkbox"/> 15th June-15th July 004 <input type="checkbox"/> 16th July-16th August 005 <input type="checkbox"/> 17th August-16th September 006 <input type="checkbox"/> 17th September-16th October 007 <input type="checkbox"/> 17th October-15th November 008 <input type="checkbox"/> 16th November-15th December 009 <input type="checkbox"/> 16th December-13th January 010 <input type="checkbox"/> 14th January-11th February 011 <input type="checkbox"/> 12th February-13th March 012 <input type="checkbox"/> 14th March-13th April 888 <input type="checkbox"/> Don't Know</p>

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING
R. GARBAGE

E I2.Contains(18)

<p>I3.In the last 12 months, did your house-hold use this Garbage?</p>	<p>SINGLE-SELECT I3_GP 01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
--	--

<p>J13.How many working burners/ potholes does %rosteritle% have?</p> <p>E ((Long?)@rowcode) .InList (2,3,4,5,6,7,8)</p> <p>V1 self < 7</p> <p>M1 Too Many. Check</p>	<p>NUMERIC: INTEGER J13</p> <p>-----</p>
<p>J14.How long have you been using %rosteritle% for?</p> <p>I YEARS and MONTHS,Don't Know ...888</p>	<p>NUMERIC: DECIMAL J14</p> <p>-----</p>
<p>J15.In the last 12 months, during which of the following months did you use %rosteritle%?</p>	<p>MULTI-SELECT J15</p> <p>111 <input type="checkbox"/> Used all year</p> <p>001 <input type="checkbox"/> 13th April-13th May</p> <p>002 <input type="checkbox"/> 14th May-14th June</p> <p>003 <input type="checkbox"/> 15th June-15th July</p> <p>004 <input type="checkbox"/> 16th July-16th August</p> <p>005 <input type="checkbox"/> 17th August-16th September</p> <p>006 <input type="checkbox"/> 17th September-16th October</p> <p>007 <input type="checkbox"/> 17th October-15th November</p> <p>008 <input type="checkbox"/> 16th November-15th December</p> <p>009 <input type="checkbox"/> 16th December-13th January</p> <p>010 <input type="checkbox"/> 14th January-11th February</p> <p>011 <input type="checkbox"/> 12th February-13th March</p> <p>012 <input type="checkbox"/> 14th March-13th April</p> <p>888 <input type="checkbox"/> Don't Know</p>
<p>J16.Is the %rosteritle% fixed in one place or moveable?</p>	<p>SINGLE-SELECT J16</p> <p>01 <input type="radio"/> Fixed</p> <p>02 <input type="radio"/> Moveable</p>
<p>J17.In the last 12 months, where did you normally cook with %rosteritle%?</p>	<p>SINGLE-SELECT J17</p> <p>001 <input type="radio"/> In dwelling, NOT in sleeping area</p> <p>002 <input type="radio"/> In dwelling, in a sleeping area</p> <p>003 <input type="radio"/> In a separate dwelling</p> <p>004 <input type="radio"/> In a veranda (roofed platform with at least two open sides)</p> <p>005 <input type="radio"/> Outdoors</p> <p>555 <input type="radio"/> Other, specify</p>
<p>J17. Specify Others</p> <p>E J17 == 555</p>	<p>TEXT J17_SO</p> <p>-----</p>
<p>J17A.Do you use a grate with %rosteritle%?</p> <p>E J3.ContainsAny (2,3) && J17.InList (1,2,3,555)</p>	<p>SINGLE-SELECT J17A</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>J17B.Does %rosteritle% have a working fan attached to it?</p> <p>E J3.ContainsAny (2,3) && J17.InList (1,2,3,555)</p>	<p>SINGLE-SELECT J17B</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>J18.Do you use a chimney, hood, other exhaust system while using %rosteritle%?</p> <p>E J17.InList (1,2,3,555)</p>	<p>SINGLE-SELECT J18</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>J19. Do you regularly clean a chimney, hood or</p>	<p>SINGLE-SELECT J19</p>

Date of Visit 3 with respondent	DATE DATE_VISIT3
Disposition Code	SINGLE-SELECT DISP3 01 <input type="radio"/> No Household Member at home or no competent respondent at home 02 <input type="radio"/> Entire household absent for extended period 03 <input type="radio"/> Dwelling vacant or address not a dwelling 04 <input type="radio"/> Out of Scope (the household is not within the sample) 05 <input type="radio"/> Completed (all modules are complete) 06 <input type="radio"/> Postponed/Rescheduled (interview was postponed and a new time scheduled) 07 <input type="radio"/> Partial Complete/Will Return (interview was stopped but will continue later) 08 <input type="radio"/> Partial Complete/Interview Finished (interview was stopped and will not continue) 09 <input type="radio"/> Final Refusal (interview was refused/no interview completed): 10 <input type="radio"/> Temporary Refusal (interview was refused, FS will follow-up) 11 <input type="radio"/> Other Non-Interview (specify)
Other Non-Interview Specify	TEXT OTHER3_SPECIFY

E DISP3==11

